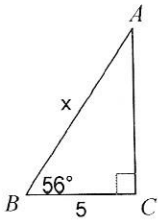


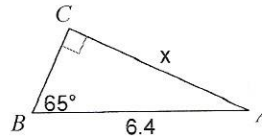
Snow Packet Day 1

Find the measure of each side indicated. Round to the nearest tenth.

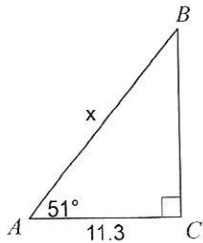
1)



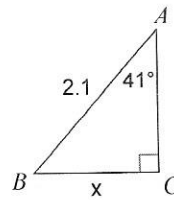
2)



3)

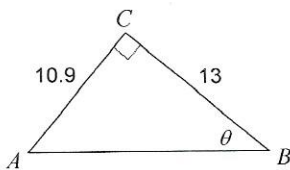


4)

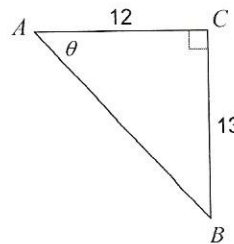


Find the measure of each angle indicated. Round to the nearest tenth.

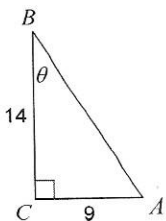
5)



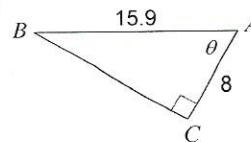
6)



7)



8)



Solve each equation for $0 \leq \theta < 2\pi$.

9) $-2 + \cos \theta = -1$

10) $-1 = 2\cos \theta$

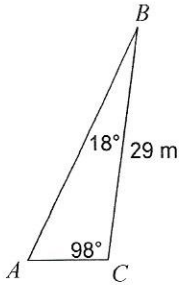
11) $-3\sqrt{3} = -9\tan \theta$

12) $2 = 1 + \tan \theta$

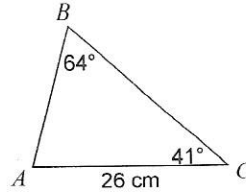
Snow Day 2

Use the Law of Sines and/or Cosines to find the missing measure indicated. Round your answers to the nearest tenth.

1) Find AB



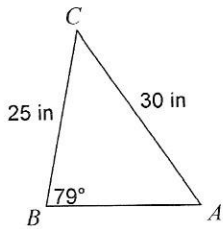
2) Find AB



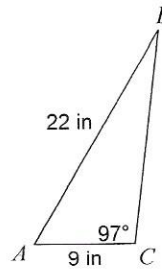
3) $m\angle C = 70^\circ$, $m\angle A = 98^\circ$, $c = 18$ ft
Find a

4) $m\angle B = 40^\circ$, $m\angle C = 17^\circ$, $b = 33$ cm
Find c

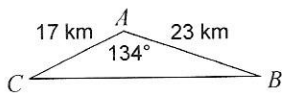
5) Find $m\angle A$



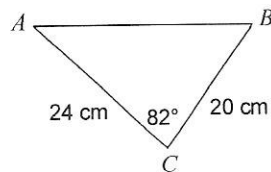
6) Find $m\angle B$



7) Find BC



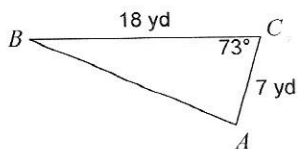
8) Find AB



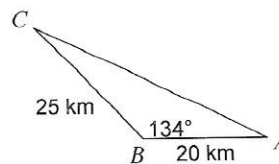
9) $m\angle A = 89^\circ$, $b = 21$ yd, $c = 12$ yd
Find a

10) $a = 21$ ft, $m\angle C = 71^\circ$, $b = 10$ ft
Find c

11) Find $m\angle A$



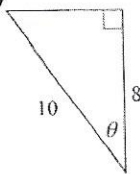
12) Find $m\angle C$



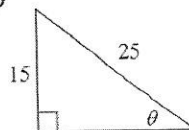
Snow Packet: Day 3

Find the value of the trig function indicated.

1) $\sin \theta$



2) $\sec \theta$



3) Find $\tan \theta$ if $\sec \theta = \frac{5}{4}$

4) Find $\sin \theta$ if $\csc \theta = \frac{5}{3}$

Simplify.

5) $(-6 - 4i) - (-1 - i)$

6) $(1 - 2i) - (-5 + 2i)$

7) $(8 - 7i) + (-2 + 7i)$

8) $(3 + 7i) + (3 + 7i)$

9) $(i) - (5 + 5i) - 6$

10) $(-5 - 7i)(-8 + 5i)$

11) $(8 + i)^2$

12) $(3 + 5i)^2$

13) $(-1 - 5i)(3 - 5i)$

14) $(-4 - 6i)(5 - 6i)$

Solve each equation with the quadratic formula. Write solutions as complex numbers in standard form.

15) $5k^2 - 4k + 10 = 0$

16) $3x^2 - 6x + 6 = 0$

Snow Packet: Day 4

Identify the domain of each.

1) $f(x) = -\frac{1}{x+1}$

2) $f(x) = \frac{1}{2x^2 + 6x}$

3) $f(x) = \frac{3}{x^2 - x - 6}$

4) $y = \sqrt{x+4}$

5) $y = \sqrt{x-3}$

6) $y = \sqrt[3]{x+5}$

Find the inverse of each function.

7) $g(x) = -3x - 4$

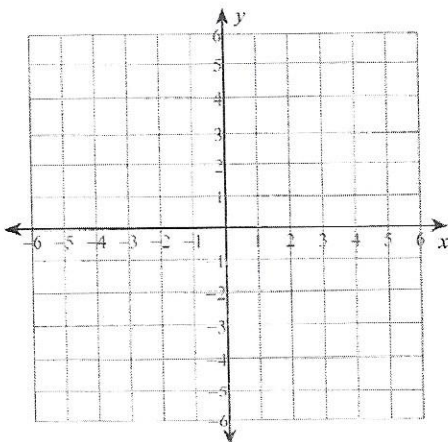
8) $f(x) = -1 + 2x^5$

9) $f(x) = (x+2)^3$

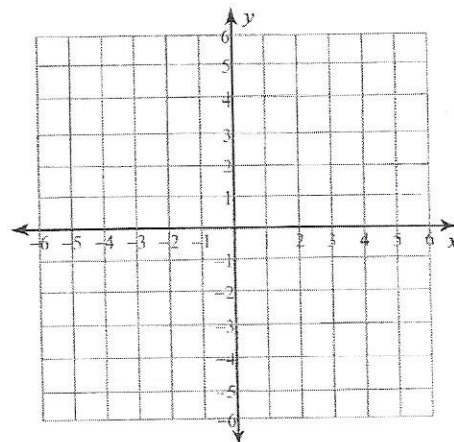
10) $f(x) = x^3 + 2$

Graph each equation without a calculator and describe all transformations involved.

11) $y = -3|x-1| + 3$



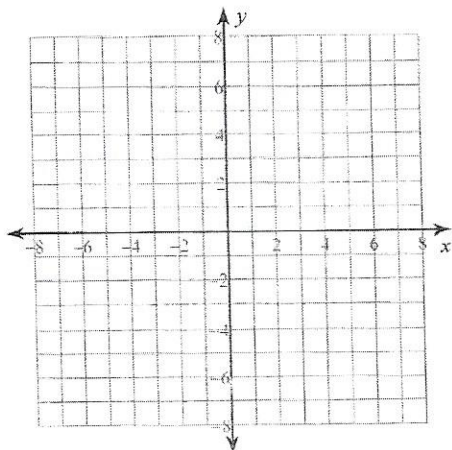
12) $y = 2|x+1| + 2$



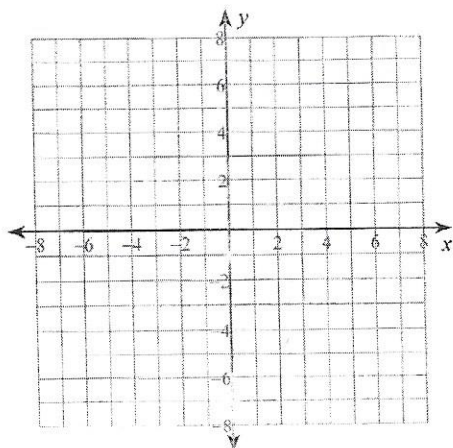
Snow Packet: Day 5

Identify the vertical asymptotes, x-intercepts, y-intercepts and end behavior horizontal asymptote of each. Then sketch the graph.

$$1) f(x) = \frac{x^2 + 3x - 4}{2x^2 + 6x}$$



$$2) f(x) = \frac{x + 2}{x + 1}$$



$$3) f(x) = \frac{x^3 - x}{-4x^2 + 16}$$

