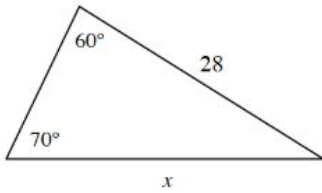
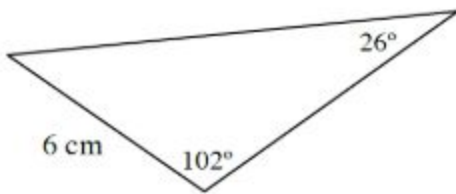


Triangle Practice

1) Solve for x and calculate the area of each triangle below.



2) Solve the triangle completely, meaning find all of the missing information including the area.

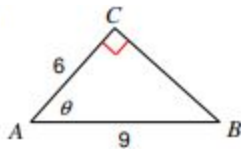


3) Given $\triangle DOG$, where $\angle D = 64^\circ$, $\angle O = 38^\circ$, and $DO = 8$ inches.

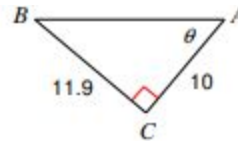
- a. Draw a diagram that is roughly to scale.
- b. Solve the triangle completely.
- c. Calculate the area of $\triangle DOG$.

4) Solve for the indicated angle θ or side x . Round solutions to the nearest 10th.

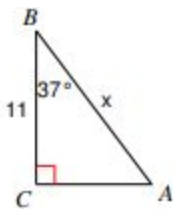
a.



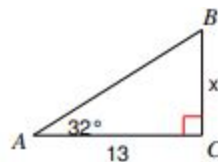
b.



c.

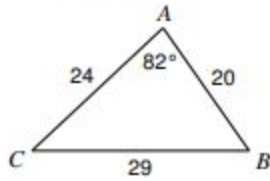


d.

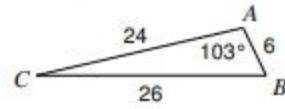


5) Find the measure of $\angle C$. Round solutions to the nearest 10th.

a.



b.



6) Solve the following equations. When necessary round solution to nearest 10th.

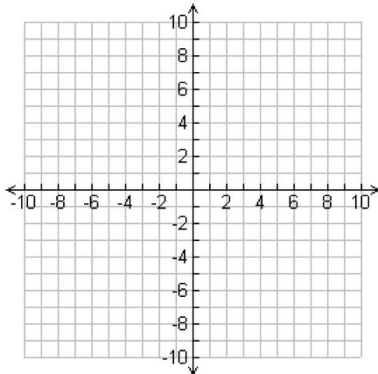
a. $\log_3(x) - \log_3(5) = 2$

b. $2(1.5)^x - 3 = 33$

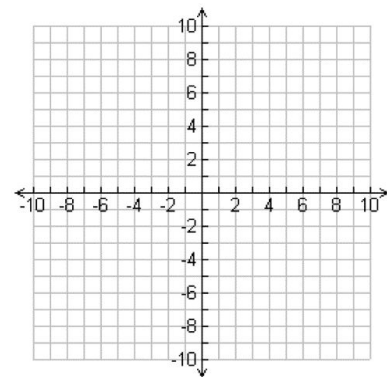
7) Solve for c : $c^4 - 11c^2 - 80 = 0$

8) Graph each function below.

a. $f(x) = -2(3)^x - 7$



b. $g(x) = \log_6(x - 2)$



9) Let $f(x) = \begin{cases} x^2 & \text{for } -2 \leq x < 1 \\ 2 - x & \text{for } 1 \leq x < 4 \end{cases}$

a. Graph $f(x)$

b. Is $f(x)$ continuous? Explain.

