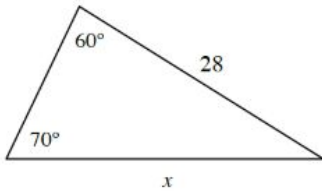
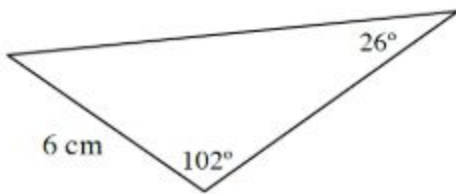


Triangle Practice

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.

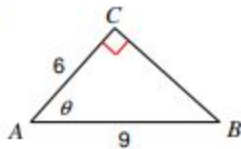


3) Given $\triangle DOG$, where $\angle D = 64^\circ$, $\angle O = 38^\circ$, and $DO = 8$ inches.

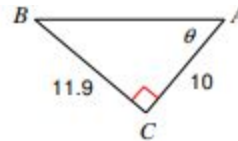
- Draw a diagram that is roughly to scale.
- Solve the triangle completely.
- Calculate the area of $\triangle DOG$.

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

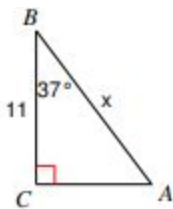
a.



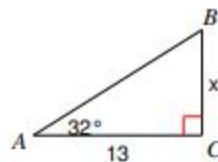
b.



c.

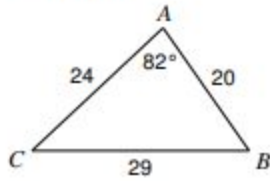


d.

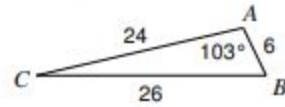


5) Find the measure of $\angle C$. Round solutions to the nearest 10th.

a.



b.



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

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

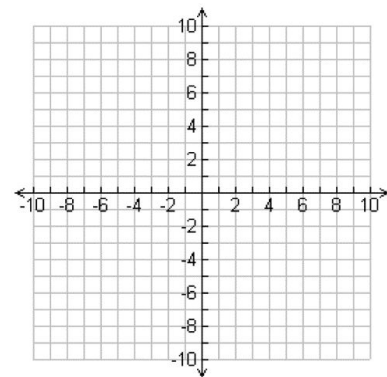
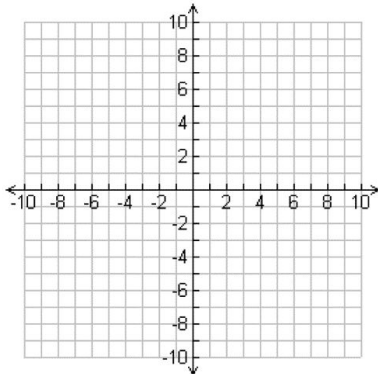
b. $2(1.5)^x - 3 = 33$

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) Write each of the following rational expressions as a simplified single fraction.

a. $\frac{x+y}{xy} \cdot \frac{2x^2y}{x^2-y^2}$

b. $\frac{3x}{x+2} + \frac{2x}{x-2}$