

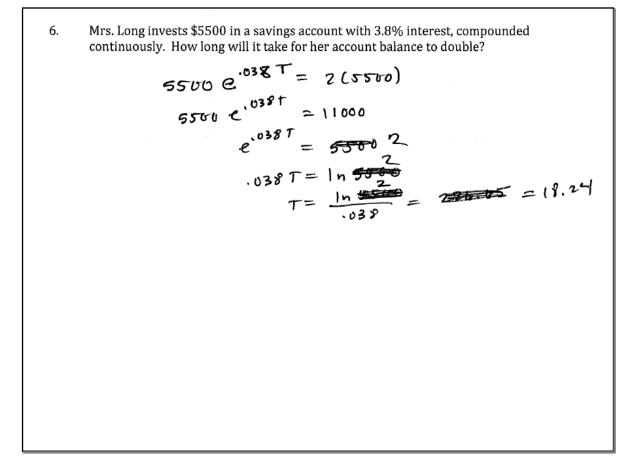
 $\log_{4} 6 = 1 \log_{4} 34 = 2 \dots$ Given $\log_6 4 \approx 0.6$ and $\log_6 11 \approx 1.1$, find: 3. $\log_6\left(\frac{11}{4}\right)$ c. $\log_6\left(\frac{6}{11}\right)$ b. a. log₆66 1046 - log 11 log 6 (6 · 11) log 11 - 109 64 10966+109 11 1.1 - .6 1-1.1 1+11 0.5 - 0.1 2.1

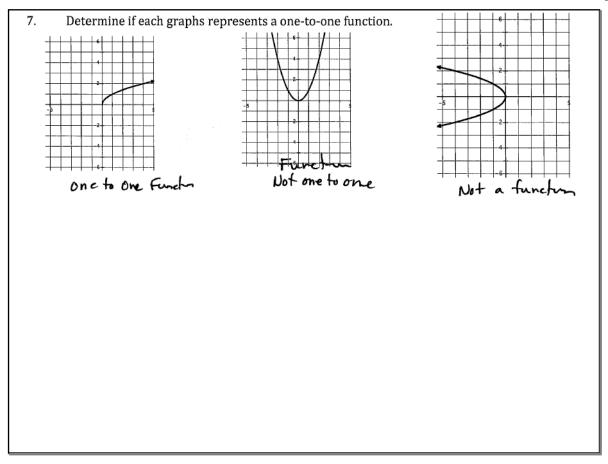
4. Solve. Be sure to check your solutions!
a.
$$3 \cdot 5^{2x-1} + 6 = 381$$

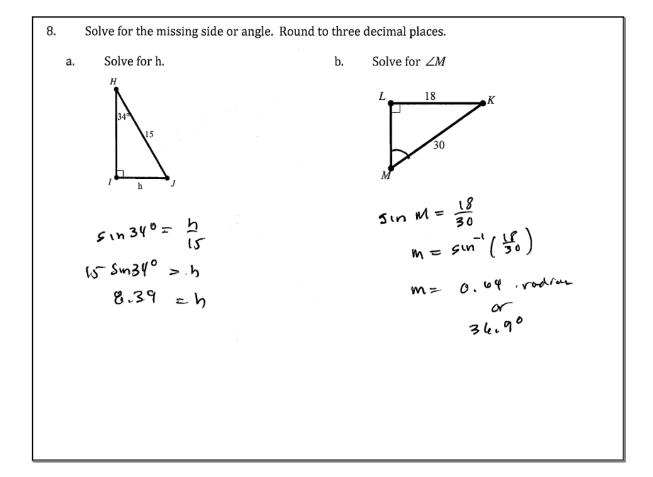
 $3 - 5^{2x-1} = 375$
 $5^{2x-1} = 125^{-1}$
No Calce
 $5^{2x-1} = 5^{-1}$
 $2x - 1 = 3$
 $2x - 2$
 $2x - 1 = 3$
 $2x - 4$
 $x = 2$
 $x = 2$
 $x = 2$
 $x = 2$
 $x = 4$
 $x = 2$
 $x = 4$
 $x = 4$

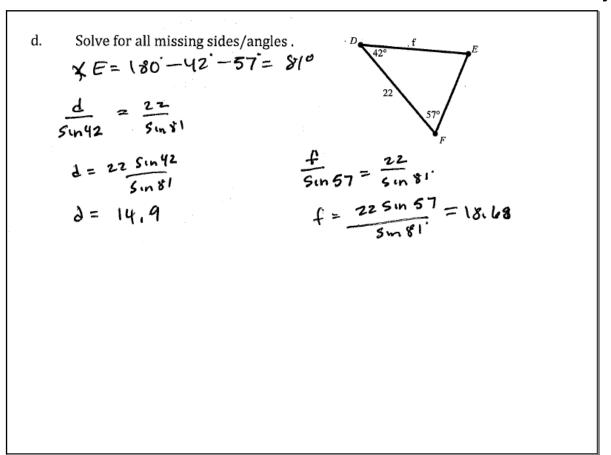
5. Mr. McCord invests \$1500 in a savings account with 2.5% interest, compounded monthly. Find the account balance after 12 years.

$$1500(1+\frac{025}{12}) = \frac{2024.16}{12}$$



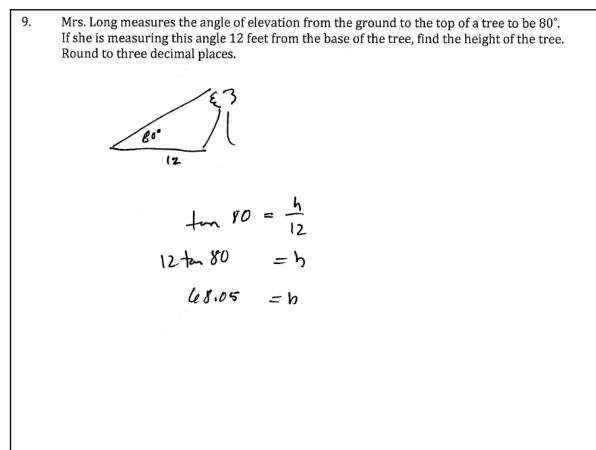


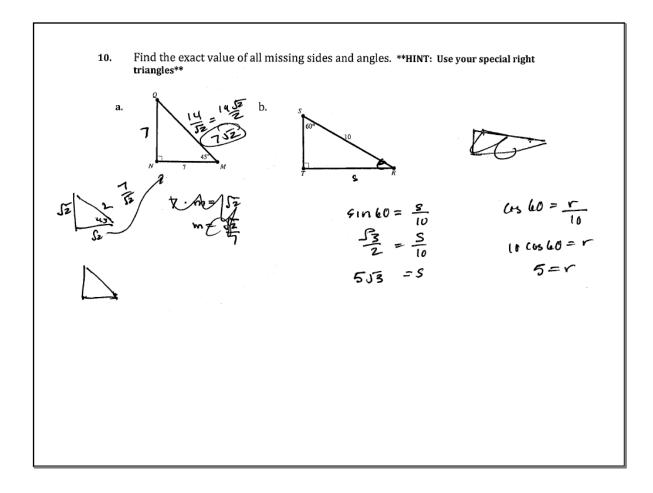




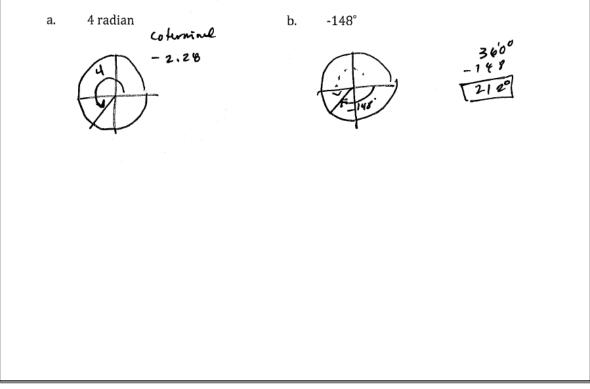
e. Solve for all missing sides/angles.

$$b = \sqrt{12^{2} + 10^{2} - 2(12)(10)(45100)} = \sqrt{100} + \sqrt{100}$$

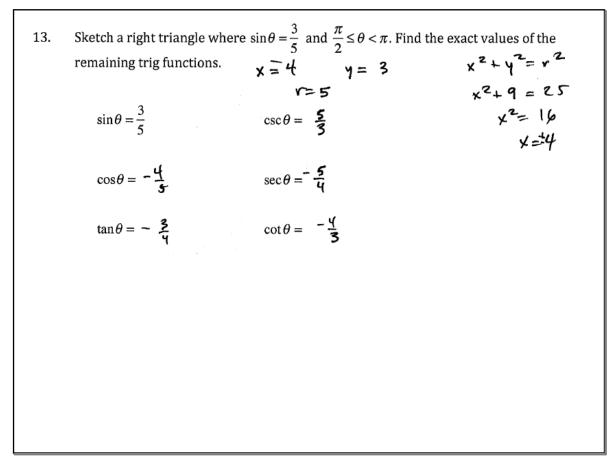




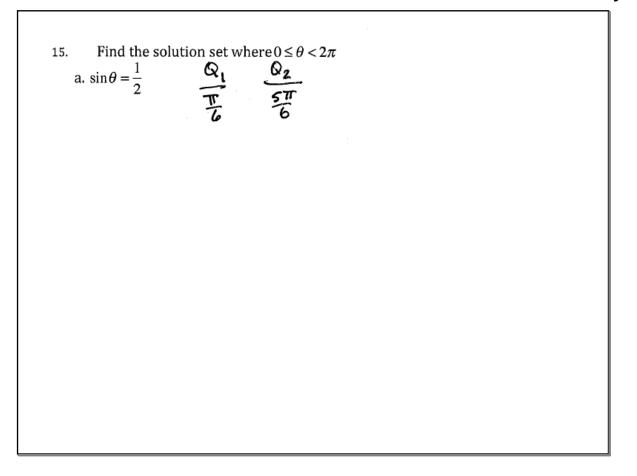
11. Draw each angle. Include an arrow representing the amount of rotation. Find the measure of one other angle that is coterminal with the given angle. Give the quadrant of each angle.



12. Find the exact value.
a.
$$\sin 135^{\circ} = \frac{f_{2}^{2}}{2}$$
 b. $\csc \frac{3\pi}{4} = \frac{2}{f_{2}^{2}} = \frac{2J^{2}}{2} = \int_{-2}^{2}$
c. $\csc 300^{\circ} = \frac{1}{f_{3/2}} = \frac{2}{f_{3}^{2}} \times \frac{2J^{3}}{3}$ d. $\tan \left(-\frac{2\pi}{3}\right) = \frac{J^{3}}{\frac{1}{2}} = +J^{3}$
e. $\sin 120^{\circ} \quad \int_{-2}^{3} f_{3}$ f. $\cos \frac{4\pi}{3} = -\frac{1}{2}$



14. Simplify. a. $\sin\theta \cot\theta \cos\theta$ $s_{yart}\theta = \frac{\cos\theta}{s_{yart}\theta}$. $\cos\theta$ $C_{rs}^{2}\theta$



c.
$$2\cos\theta + 3 = 4$$

 $2\cos\theta = 1$
 $1\frac{\pi}{3}$
 $\cos\theta = \frac{5\pi}{3}$
 $\cos\theta = 0$
 $\cos\theta = 0$
 $\cos\theta = \frac{5\pi}{2}$
 $\theta = \frac{7}{2}$
 $\theta = \frac{7}{2}$
 $\theta = \frac{3\pi}{2}$
 $\frac{3\pi}{2}$
 $\frac{3\pi}{2$

