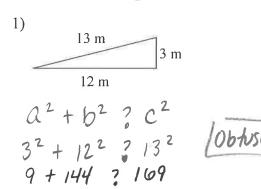
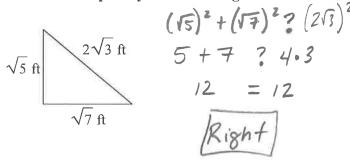
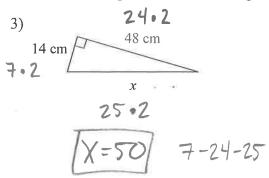
Review WS for PC #2 (9.1 - 9.3)

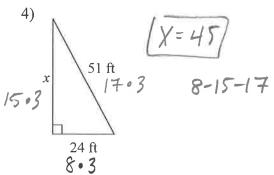
State if each triangle is acute, obtuse, or right. Show your work to explain your reasoning.



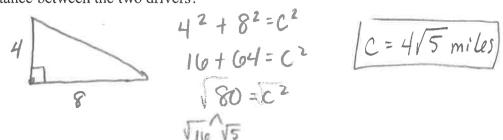


153 < 169 Find the missing side of each triangle. What pythagorean triplet family does this belong to?

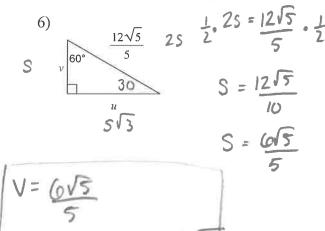




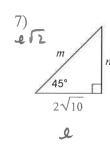
5) UPS trucks are out making deliveries. Two drivers met for lunch and are going back out on their deliveries. One driver goes 4 miles north and the other drives 8 miles east. What is the direct distance between the two drivers?

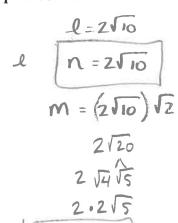


Find the missing side lengths. Leave your answers as radicals in simplest form.

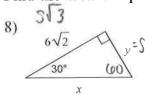


U = 615. V3 = 6115





Find the area and perimeter of the triangle. Leave your answers in simplist radical form.



$$X = 2(3\sqrt{2}) = 6\sqrt{2}$$

 $Y = (3\sqrt{2})(\sqrt{3}) = 3\sqrt{6}$

Area =
$$\frac{1}{2}(4\sqrt{6})(6\sqrt{2})$$

= $12\sqrt{12} = 12\sqrt{4}\sqrt{3}$
 $12\sqrt{6} = 2\sqrt{6}$ | $12\sqrt{4}\sqrt{3}$
| $12\sqrt{6}$ | $12\sqrt{4}\sqrt{3}$
| $12\sqrt{6}$ | $12\sqrt{4}\sqrt{3}$

$$S = \frac{6\sqrt{2}}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{6\sqrt{6}}{3} = 2\sqrt{6}$$

$$2S \quad \text{Arm} = \frac{1}{2} \left(\frac{4\sqrt{6}}{6\sqrt{2}} \right)$$

$$= 12\sqrt{12} = 12\sqrt{4\sqrt{3}}$$

$$S = 6\sqrt{2} \cdot \sqrt{3} = 6\sqrt{6} = 2\sqrt{6}$$

$$= 12\sqrt{3} = 2\sqrt{6}$$

$$= 12\sqrt{6}$$

$$= 12\sqrt{6$$

10)
$$2\sqrt{2} = 10$$

$$2\sqrt{2} = 10$$

$$2\sqrt{2} = 10$$

$$2\sqrt{2} = 10$$

$$2\sqrt{2} = 5\sqrt{2}$$

$$45^{\circ}$$

$$5$$

11)
$$2\sqrt{2} a \qquad 5\sqrt{5} \qquad 2$$

$$45^{\circ} \qquad b \qquad 1$$

Parimeter =
$$5\sqrt{2} + 5\sqrt{2} + 10$$

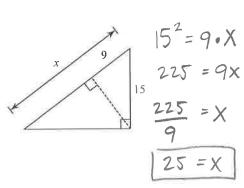
= $10\sqrt{2} + 10$ units
 $A = \frac{1}{2}(5\sqrt{2})(5\sqrt{2}) = 25.2 = 25$ units²

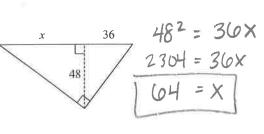
Perimeter =
$$5\sqrt{5} + 5\sqrt{5} + 5\sqrt{10}$$

= $10\sqrt{5} + 5\sqrt{10}$ units
 $A = \frac{1}{2}(5\sqrt{5})(5\sqrt{5}) = \frac{1}{2}.25.5 = \frac{125}{2}$ units²

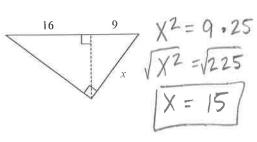
Find the missing length indicated. Leave your answer in simplest radical form.

12)





14)



15)

