



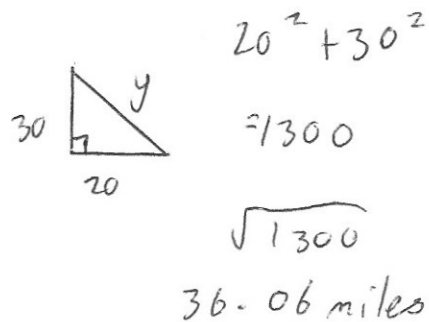
Solve

$$4x^2 + 4x + 1 = 0$$

$$(2x + 1)(2x + 1) = 0$$

$$x = -0.5$$

A plane travels 20 miles west and then 30 miles north.
How far, in a direct line, is the plane from its starting point?



Simplify $4\sqrt{3} \times 2\sqrt{3}$

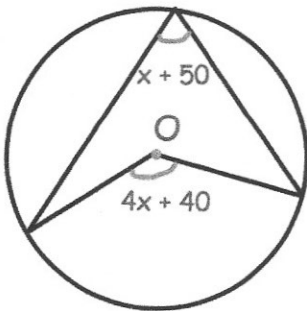
$$8\sqrt{9}$$

$$8 \times 3$$

$$24$$

Simplify $\sqrt{48} \div \sqrt{12}$

$$\sqrt{4} = 2$$



Find x

$$2(x + 50) = 4x + 40$$

$$2x + 100 = 4x + 40$$

$$60 = 2x \quad x = 30^\circ$$

Shown is a speed-time graph.
The total distance travelled is 1.15km

Find V. Area 1150 m

$$\left. \begin{aligned} (1) \quad \frac{1}{2} \times 40 \times v &= 20v \\ (2) \quad 80 \times v &= 80v \\ (3) \quad \frac{1}{2} \times 30 \times v &= 15v \end{aligned} \right\} 115v$$

