



7.6k

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Statement 2:

$$a = b$$

Taking 2 triangles

ADC and ABC

common angle A

$$\therefore \angle ADC = \angle ABC$$

$$\angle ACB = \angle ACD$$

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Ratios $\therefore \frac{AD}{AC} = \frac{AC}{AB}$

$$\frac{AD}{AC} = \frac{AC}{AB} = \frac{BC}{PC}$$

$$\frac{9}{y} = \frac{y}{16}$$

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$$\therefore y^2 = 144$$

$$y = 12$$