

Solve: $5 + \frac{1}{1-x} = 8$

(A) $x = -\frac{3}{14}$

(B) $x = \frac{1}{3}$

(C) $x = -\frac{2}{23}$

(D) $x = \frac{2}{3}$

(E) $x = \frac{12}{13}$

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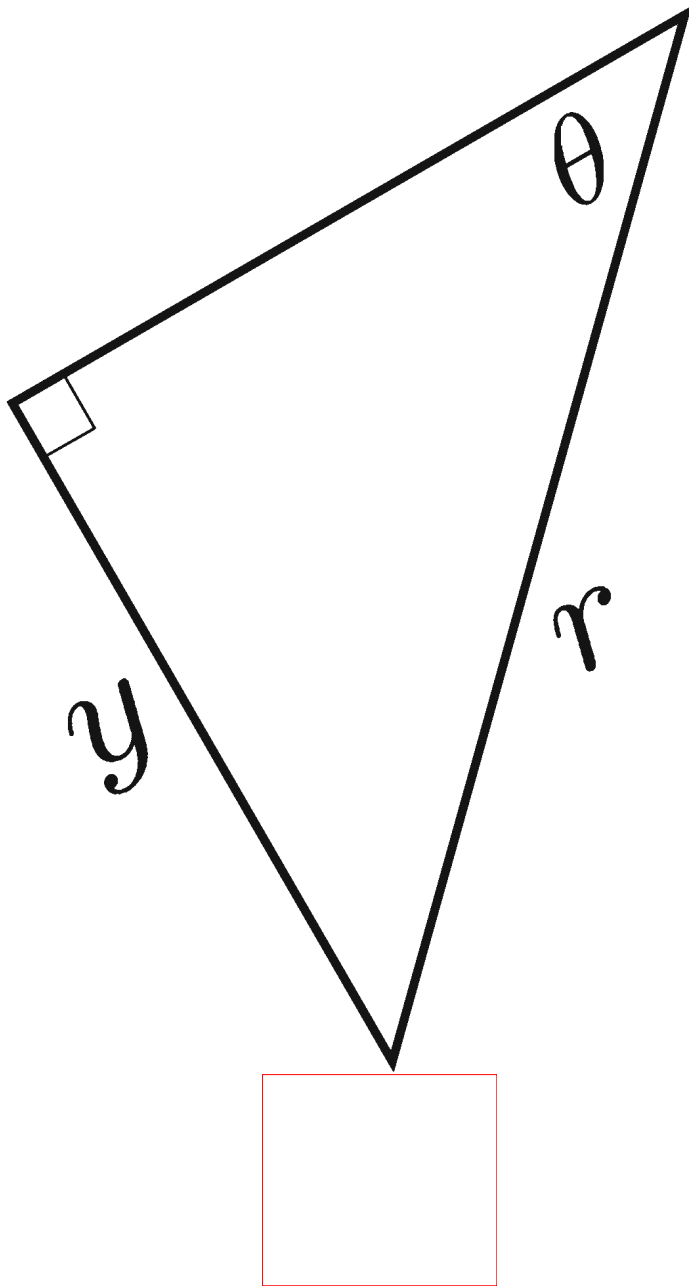
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The magnitude of y is:

(A) $y = r/\theta$

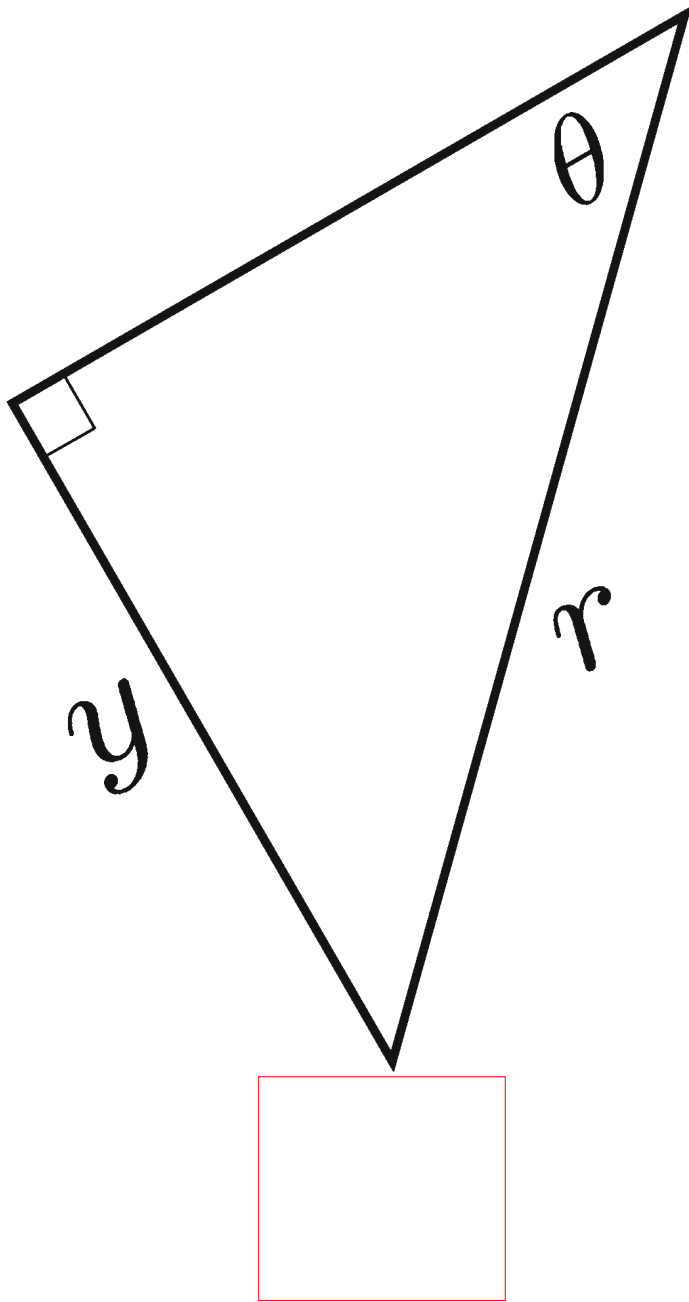
(B) $y = r \tan \theta$

(C) $y = r \cos \theta$

(D) $y = r / \tan \theta$

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(E) $y = r \sin \theta$



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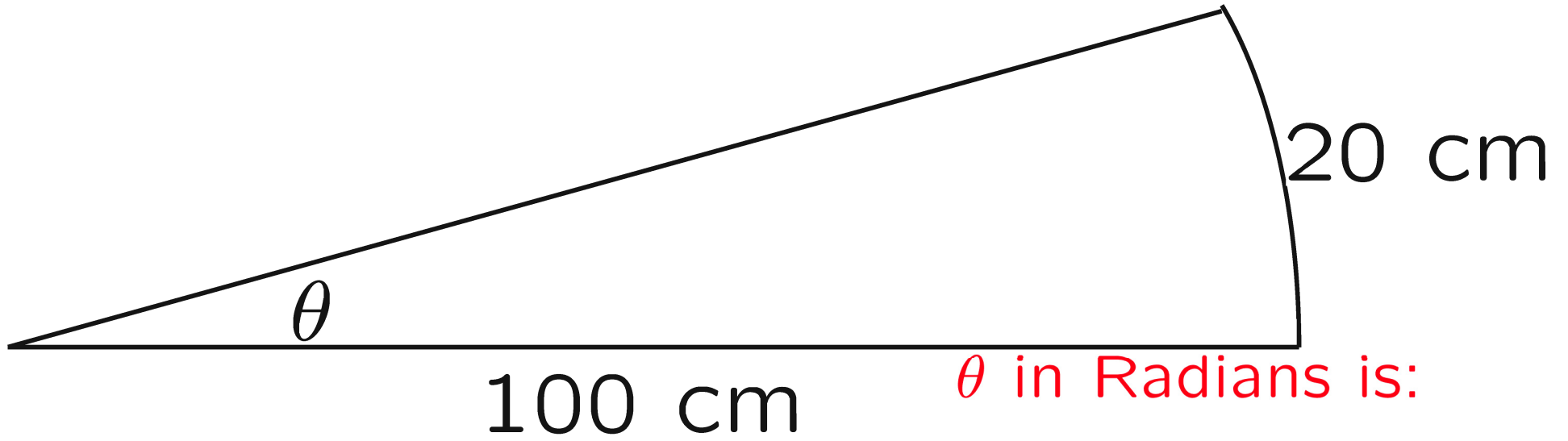
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(A) $\theta = 0.2$

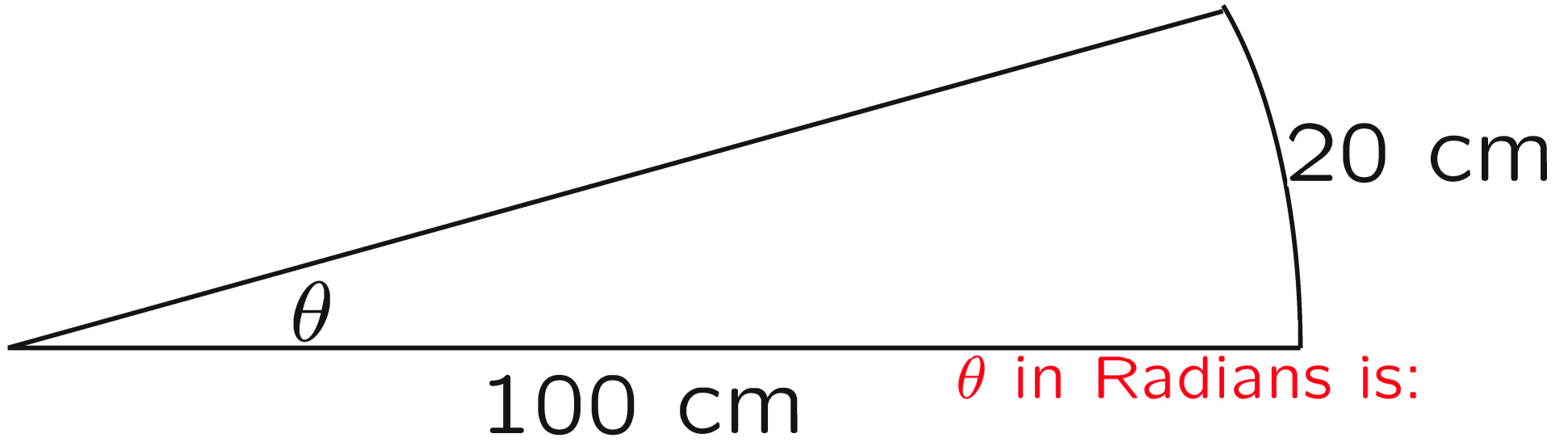
(B) $\theta = \arctan(20/100)$

(C) $\theta = \arcsin(20/100)$

(D) $\theta = 20^\circ$

(E) Not enough information

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θ in Radians is:

(A) $\theta = 0.2$

(B) $\theta = \arctan(20/100)$

(C) $\theta = \arcsin(20/100)$

(D) $\theta = 20^\circ$

(E) Not enough information

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30° in Radians is:

(A) $1/2$

(B) $\pi/60$

(C) $\pi/6$

(D) $\pi/4$

(E) $\pi/3$

✓ — / — / —

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Two very dense metal balls are the same size, but one weighs twice as much as the other. The balls are dropped from the roof of a single story building at the same instant of time. The time it takes for the balls to reach the ground below will be:

- (A) about half as long for the heavier ball as for the lighter one.
- (B) about half as long for the lighter ball as for the heavier one.
- (C) about the same for both balls.
- (D) considerably less for the heavier ball, but not necessarily half as long.
- (E) considerably less for the lighter ball, but not necessarily half as long.

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