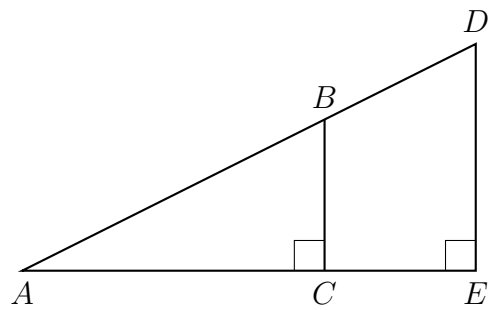


11.15 Similarity ratios

1. In the diagram below of right triangle AED , $\overline{BC} \parallel \overline{DE}$.



Which statement is always true?

- (a) $\frac{AC}{BC} = \frac{DE}{AE}$

(b) $\frac{AB}{AD} = \frac{BC}{DE}$
- (c) $\frac{AC}{CE} = \frac{BC}{DE}$

(d) $\frac{DE}{BC} = \frac{DB}{AB}$
2. Determine and state an equation of the line perpendicular to the line $5x - 4y = 10$ and passing through the point $(5, 12)$.
3. What is the equation of a circle whose diameter is \overline{AB} with $A(2, -1)$ and $B(8, 7)$?

