

## Quadrilaterals

### Solution

2. C

$$x + 3 = 16$$

$$x = 13$$

$$y - 5 = 8$$

$$y = 13$$

3. D

4. C

$$\text{Let } \angle ADE = \angle DEB = y$$

$$y = \theta + 40^\circ \text{ (opp. } \angle\text{s of // gram)}$$

$$y + \theta = 180^\circ \text{ (int. } \angle\text{s, } DC // AB)$$

$$\text{By solving, } \theta = 70^\circ, y = 110^\circ$$

5. B

$$AD = BC = 10 \text{ cm}$$

$$AC = \sqrt{AD^2 + DC^2}$$

$$= \sqrt{10^2 + 24^2}$$

$$= 26 \text{ cm}$$

$$AE = \frac{AC}{2}$$

$$= 13 \text{ cm}$$

6. A