

same for both forms.
② → 1. D
?? → 3. E

4. Free 6. B
5. B

①. $110^\circ + 360^\circ = 470^\circ$

④ —

③ $180^\circ - 30^\circ = 150^\circ$

⑤ $360k + \theta$

⑥ $7x + 15 + x + 5 + 10x - 20 = 180$
 $\Rightarrow 18x = 180$
 $\Rightarrow x = 10$
 so $\angle B = x + 5 = 10^\circ + 5^\circ = 15^\circ$

FORM #2.

③



$\Rightarrow \alpha = 180^\circ - 25^\circ$ (supplementary)
 $= \boxed{155^\circ}$

⑧ note that $\angle a = \angle c = \angle e = (5x + 40)^\circ$

and $\angle b = (3x - 20)^\circ = \angle f$

and $\angle a + \angle b = 180^\circ \Rightarrow 5x + 40 + 3x - 20 = 180$
 $\Rightarrow 8x + 20 = 180$
 $\Rightarrow x = 20$

so $\angle a = \angle e = (5x + 40)^\circ = (5(20) + 40)^\circ = \boxed{140^\circ}$

so $\angle c = \boxed{140^\circ}$

and $\angle f = (3x - 20)^\circ = (3(20) - 20)^\circ = \boxed{40^\circ}$

⑨ note $\angle a + \angle b = \angle c$

$\Rightarrow 5x + 7x = 120$

$\Rightarrow x = 10$

so $\angle a = 5(10)^\circ = \boxed{50^\circ}$

$\angle b = 7(10)^\circ = \boxed{70^\circ}$

⑩ Note the similar triangles

$\triangle ADB \sim \triangle EDC$

$\Rightarrow \frac{DC}{DB} = \frac{EC}{AB}$

$\Rightarrow \frac{16}{28} = \frac{x}{35}$

$\Rightarrow 28x = (16)(35)$

$\Rightarrow x = 20$

so
 $\boxed{EC = 20}$