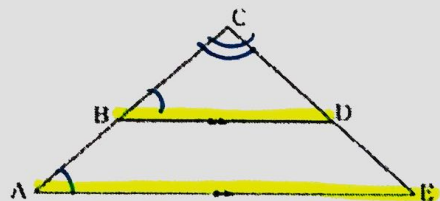


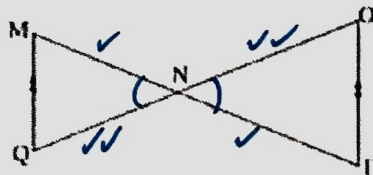
26. Given: $\overline{AE} \parallel \overline{BD}$



Prove: $\triangle ACE \sim \triangle BCD$

Statements	Reasons
1) $\overline{AE} \parallel \overline{BD}$	1) Given
2) $\angle CBD \cong \angle CAE$	2) Corresponding angles \cong
3) $\angle BCD \cong \angle ACE$	3) Reflexive Property
4) $\triangle ACE \sim \triangle BCD$	4) AA \sim

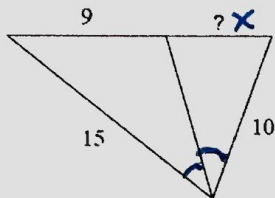
27. Given: $\frac{MN}{PN} = \frac{QN}{ON}$



Prove: $\triangle MQN \sim \triangle OPN$

Statements	Reasons
1) $\frac{MN}{PN} = \frac{QN}{ON}$	1) Given
2) $\angle MNQ \cong \angle PNO$	2) Vertical angles \cong
3) $\triangle MQN \sim \triangle OPN$	3) SAS \sim

28. Solve for the $?$.

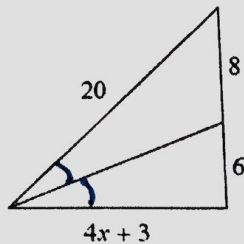


$$\frac{15}{10} = \frac{9}{x}$$

$$15x = 90$$

$$\boxed{x = 6}$$

29. Solve for x.



$$\frac{20}{4x+3} = \frac{8}{6}$$

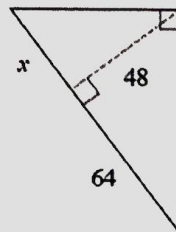
$$8(4x+3) = 20(6)$$

$$32x + 24 = 120$$

$$32x = 96$$

$$\boxed{x = 3}$$

30. Solve for x.

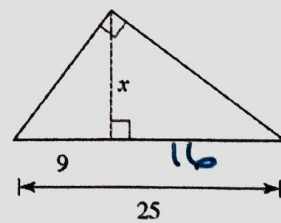


$$\frac{x}{48} = \frac{48}{64}$$

$$64x = 2304$$

$$\boxed{x = 36}$$

31. Solve for x.



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

$$x^2 = 144$$

$$\boxed{x = 12}$$