12-12-13
1st Geo

69 Give the equation in slope intercept form that goes through (2, 4) and is parallel to the line $y = 5x - 3$.

$m = 5$

$y - y_1 = m(x - x_1)$

$y - 4 = 5(x - 2)$

$y - 4 = 5x - 10$

$+4 \quad +4$

$y = 5x - 6$

70 (3,4) (5,10)

$\text{slope} = \frac{\Delta y}{\Delta x}$

$= \frac{10-4}{5-3} = \frac{6}{2} = 3$

$y - y_1 = m(x - x_1)$

$y - 4 = 3(x - 3)$

$y - 4 = 3x - 9$

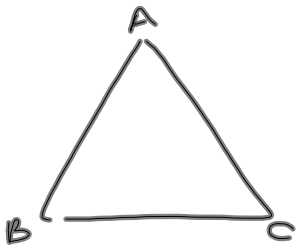
$+4 \quad +4$

$y = 3x - 5$

71 $\angle A = 3n$

$\angle B = 5n - 30$ $\angle A = ?$

$\angle C = 2n + 10$



$\angle A = 3 \cdot 20 = 60^\circ$

$3n + 5n - 30 + 2n + 10 = 180$

$10n - 20 = 180$

$+20 \quad +20$

$10n = 200$

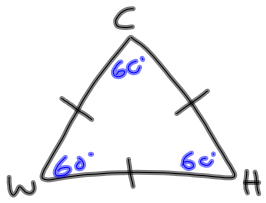
$n = 20$

(74) $\triangle CWH$

$CW = WH$

$WH = CH$

$\angle W = ?$ 60°



(75) $\triangle ABC \cong \triangle XYZ$

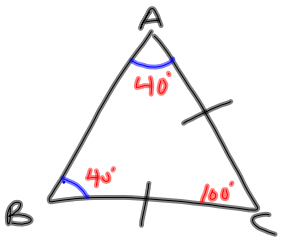
X (A) $\angle A = \angle Z$

X (B) $AC = XY$

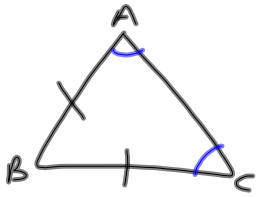
✓ (C) $XZ = BC$

(76) $\triangle ABC$ is isosceles with $AC = BC$ and $\angle A = 40^\circ$.

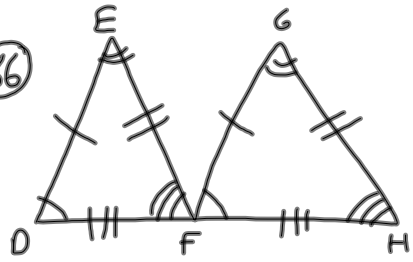
$\angle B = ?$ 40°



(77) $\triangle ABC$ is isosceles with $AB = BC$



(86)

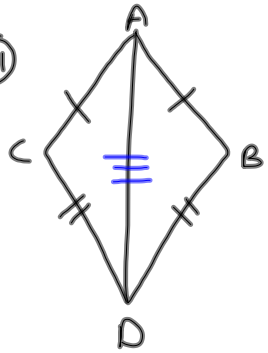


$\triangle DEF \cong \triangle FGH$

✓ $\triangle EDF \cong \triangle GFH$

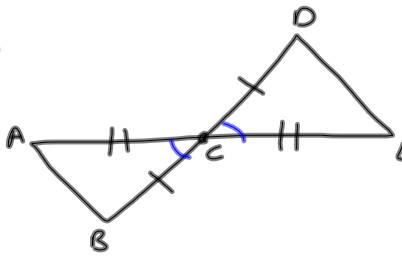
✗ $\triangle FDE \cong \triangle FHG$

(81)

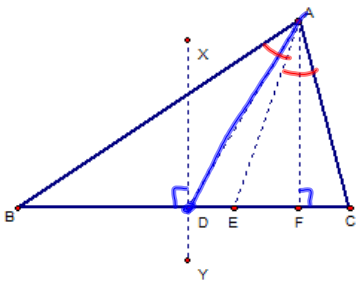


SSS

(82)



SAS



$\overline{AD}$ is median

$\overline{XY}$ is $\perp$ bisector

$\overline{AF}$ is altitude

$\overline{AE}$ is angle bisector

95

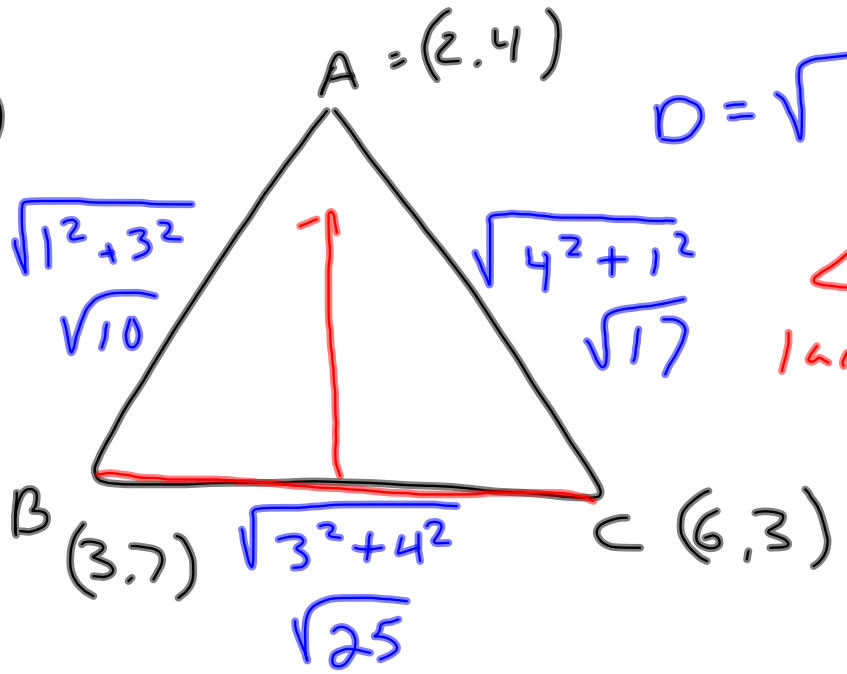
X (A) 3, 4 — 9 — 1 — 7

X (B) 2, 8 — 10 — 6 — 10

✓ (C) 3, 7 — 9 — 4 — 10

(D) 6, 8, 16

99



$D = \sqrt{\Delta x^2 + \Delta y^2}$

$\angle A$ is largest $\angle$.