

P40 Complimentary
Find $m\angle A, m\angle B$

$$m\angle A = (3x+2)^\circ = 3(23)+2 = 71^\circ$$

$$m\angle B = (x-4)^\circ = 23-4 = 19^\circ$$

$$3x+2+x-4=90$$

$$4x-2=90$$

$$\frac{+2}{+2} \quad \frac{+2}{+2}$$

$$\frac{4x}{4x} = \frac{92}{92}$$

$$x=23$$

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4a) $m\angle A$ & $m\angle B$ are supplementary

$$m\angle A = (8x+100)^\circ \quad 124^\circ$$

$$m\angle B = (2x+50)^\circ \quad 56^\circ$$

$$8x+100+2x+50=180$$

$$\frac{10x+150}{-150 \quad -150} = \frac{180}{-150}$$

$$\frac{10x}{10x} = \frac{30}{30}$$

$$x=3$$

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Polygon $\begin{cases} \text{Convex} \\ \text{Concave} \end{cases}$

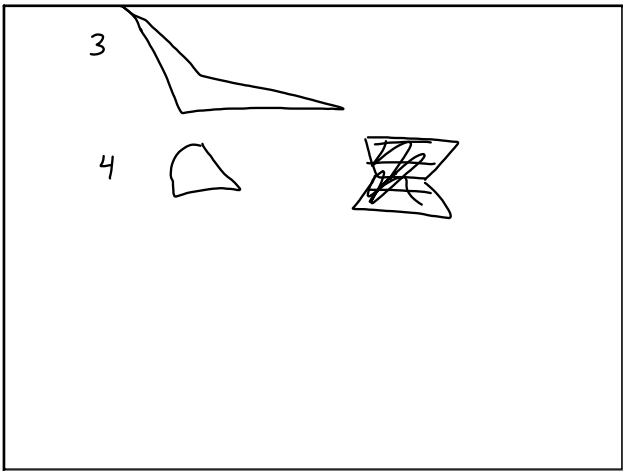
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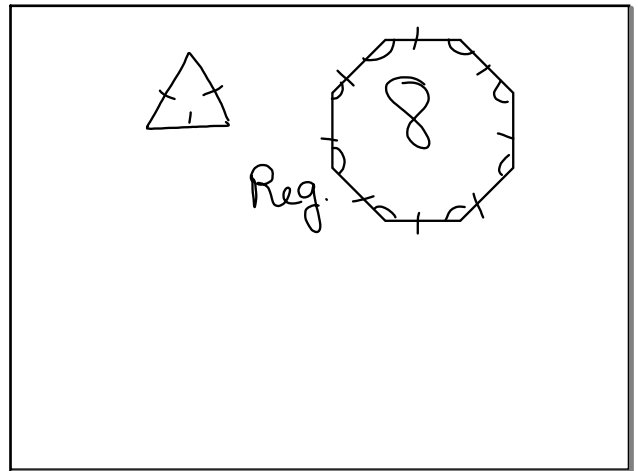
Equilateral
Equiangular
Regular

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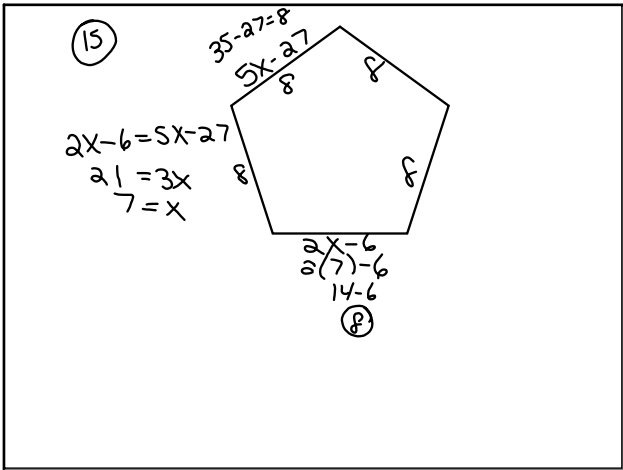
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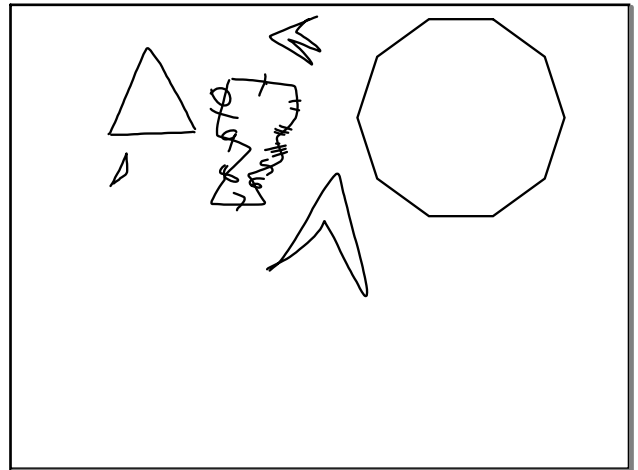
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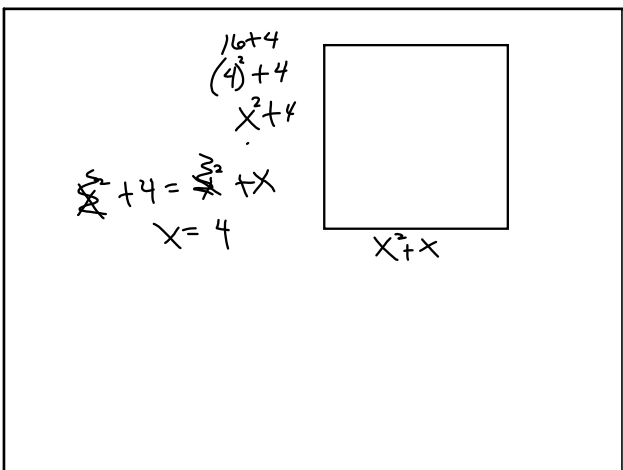
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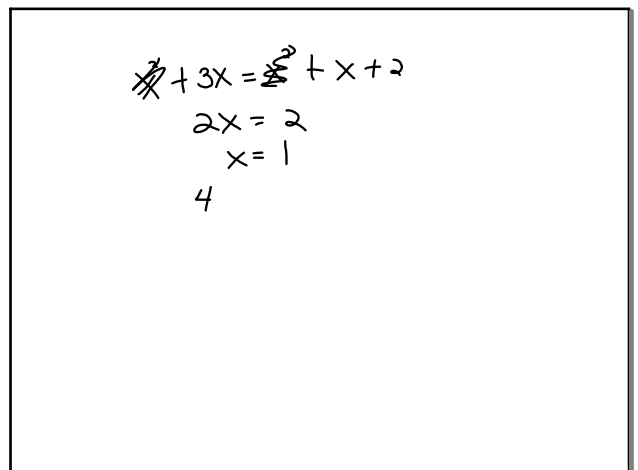
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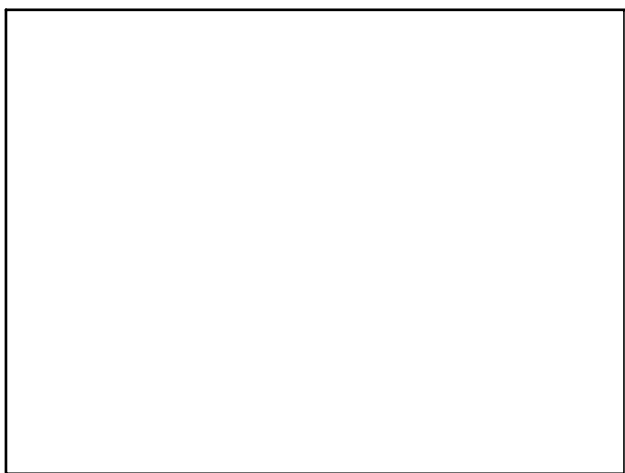
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$$\cancel{x^2} + 2x + 40 = \cancel{x^2} - x + 190$$
$$3x = 150$$
$$x = 50$$

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