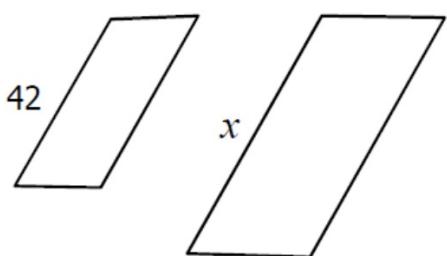


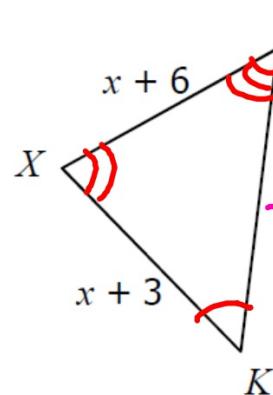
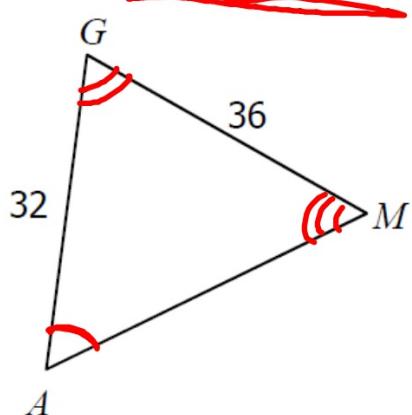
4. If the figures below are similar with a scale factor of 2:3, find the value of x .



A handwritten red equation is shown: $\frac{2}{3} = \frac{42}{x}$. Both the fraction $\frac{2}{3}$ and the fraction $\frac{42}{x}$ are circled and have a large red 'X' drawn through them, indicating they are being crossed out.

Below the crossed-out equation, there is handwritten red work: $\cancel{2}/\cancel{3} = 126/\cancel{2}$. This is followed by the equation $2x = 126$, which is then divided by 2, resulting in $x = 63$, which is boxed.

8. If $\triangle AGM \sim \triangle KXD$, find the value of x .



$$32(x+6) = 36(x+3)$$

$$32x + 192 = 36x + 108$$

$$-36x - 36x$$

$$-4x + 192 = 108$$

$$-192 - 192$$

$$\frac{AG}{GM} = \frac{KX}{XD}$$

$$\frac{32}{36} = \frac{(x+3)}{(x+6)}$$

$$\frac{-4x}{-4} = \frac{-84}{-4}$$

$$\frac{AG}{KX} = \frac{GM}{XD}$$

$$\frac{32}{(x+3)} = \frac{36}{(x+6)}$$

$$x = 21$$