

Answers must be clearly **legible**, **simplified** and **boxed** or **circled**. Write answer as an **exact** integer or fraction or use **two** decimal accuracy.

Solve for x:

1) $14x - 72 = 40$

2) $7x + 8 = 4x + 23$

3) $3(4x + 9) = 7x - 3$

4) $17 - 3(2x - 5) = 3(x - 1) + 90$

5) $\frac{5x + 2}{3} = \frac{4 - 7x}{5}$

6) **Solve for y:** $3.4x + 7.2y = 12.5$

7) **Solve for x** (give your answer accurate with 3 significant digits): $(2\sqrt{2})x + 2x = 16$

8) **Solve for y:** $m = \frac{Y - Y_0}{x - x_0}$

9) **Solve for x:** $y = mx + b$

10) Find the **formula for b₁**: $A = (\frac{1}{2})(b_1 + b_2) h$