Laps #2

① $-3^2 = \boxed{-9}$

② $(-3)^2 = \boxed{9}$

③ $-(3)^2 = \boxed{-9}$

④ $(-2)^0 = \boxed{1}$

⑤ $(-2)^1 = \boxed{-2}$

⑥ $\dfrac{2^2 \cdot 2^4}{2^5} = \boxed{2}$

⑦ $2^{-3} = \boxed{\dfrac{1}{8}}$

⑧ $(2^3)^2 = 2^6 = \boxed{64}$

⑨ $(2^3)^{-2} = 2^{-6} = \boxed{\dfrac{1}{64}}$

⑩ $(2x^4)^2 = \boxed{4x^8}$

⑪ $(3x^3)^{-2} = \boxed{\dfrac{1}{9x^6}}$

⑫ $\dfrac{\frac{2}{3}}{\frac{1}{3}} = \dfrac{2}{3} \times \dfrac{3}{1} = \boxed{2}$

⑬ $\dfrac{2}{5} \div \dfrac{4}{15} = \dfrac{2}{5} \times \dfrac{15}{4} = \boxed{\dfrac{3}{2}}$

⑭ $\dfrac{x^2 \cdot x^3}{x^5} \cdot 2^2 = \dfrac{x^5}{x^5} \cdot 4 = \boxed{4}$

④ Do this

⑤ What is the

(15) Solve:
$$3 - (x-2) = 5$$

$$3 - x + 2 = 5$$
$$5 - x = 5$$
$$\Rightarrow x = 0$$

$$\boxed{x = 0}$$

check: $3 - (0-2) \overset{?}{=} 5$
$$5 \overset{?}{=} 5 \checkmark$$

(16) Solve

$$4 - (2-x) \times 3 = 10$$

$$4 - 6 + 3x = 10$$
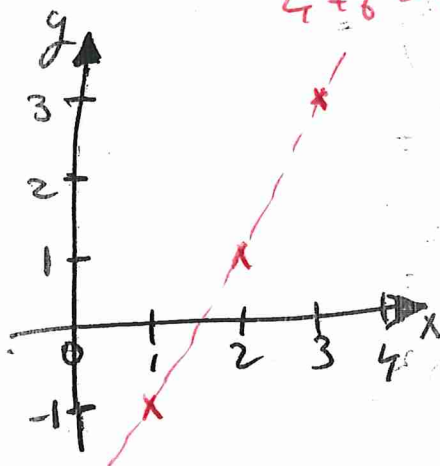
$$3x = 12 \Rightarrow x = 4$$

$$\boxed{x = 4}$$

check: $4 - (2-4) \cdot 3 \overset{?}{=} 10$
$$4 - (-2) \cdot 3 = 10$$
$$4 + 6 \overset{?}{=} 10 \checkmark$$

(17) (a) Graph the points

$$(1, -1)$$
$$(2, 1)$$
$$(3, 3)$$

(b) Do they all belong to the same line? __Yes__

(c) what is the slope of the line? $m = \dfrac{rise}{run} = \dfrac{2}{1} = \boxed{2}$