Period:___

Directions: Please answer the following questions. **Show work!!** Solve for x.

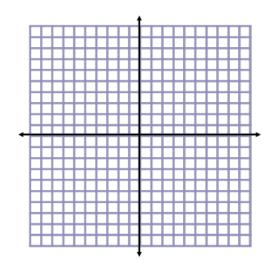
1.
$$25x + 30x = 110$$

$$2. \ \frac{100}{x} = 20$$

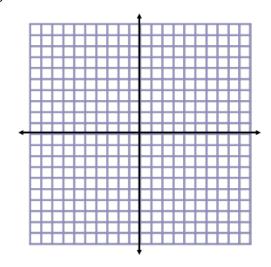
$$3.-2(3x-10)=56$$

Graph the following. 4. y = 2x + 3

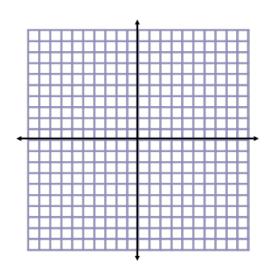
$$4. v = 2x + 3$$



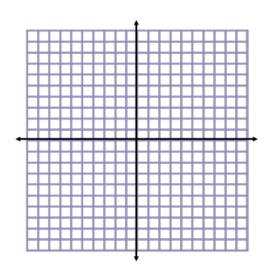
$$5. y = -4$$



$$6.\ 2x + 3y = 12$$



7. x = 1



8. Solve the system.
$$\begin{cases} 15x + 3y = 27 \\ 10x - 7y = -18 \end{cases}$$

Simplify using the properties of exponents.

$$9. \ \frac{100a^5b^2c^3}{2bc^9}$$

10.
$$(2x^4y^{12}z^{10})^{\frac{1}{2}}$$

11.
$$(10g^4h^2)^2 \cdot (4gh^7)^3$$

12.
$$5w^{\frac{1}{2}} \cdot 9w^{\frac{1}{9}}$$