Exit Note: Exponents review

This counts as a participation grade. Answer in the space provided.

Simplify, leaving no negative or fractional exponents.

1.
$$3x^{-2}y \times 3x^3y^{-1}$$

2.
$$\sqrt[2]{a^6b^{-10}}$$

3.
$$x^{\frac{1}{5}} \times (\frac{x^4}{z^{10}})^{\frac{1}{5}}$$

$$4.\ log_525$$

- 5. Let f(x) = 3x + 4 and $g(x) = (x 5)^2$
 - (a) Find $(g \circ f)(x)$
 - (b) Find $f^{-1}(x)$