

1. Write each expression in the form  $a^b$ :

$$(2^3)^x$$

$$(2^y)^x$$

$$(5^{3z})^x$$

$$(6^{2y})^{3x}$$

$$(5^{-3z})^x$$

$$(6^{-2y})^{-3w}$$

2. Write each expression in the form  $a^b$ :

$$(2^{3x^2})^x$$

$$(2^{xy})^x$$

$$(5^{3xz})^x$$

$$(6^{2xy})^{3xy}$$

$$(5^{-3x^2z})^x$$

$$(6^{-2wy})^{-3wy^2}$$