Algebra I Worksheet #5 Unit 1 Selected Solutions

Simplify each of the following.

3. $5 \cdot y \cdot y \cdot y \cdot y = \underline{5y^4}$

6. $3 \cdot n \cdot n \cdot p \cdot p \cdot p \cdot p = \underline{3n^2p^4}$

9. $(5x) \cdot x = \underline{5x^2}$
$5(x \cdot x)$

12. $(5x)(2y) = \underline{10xy}$
$(5 \cdot x) \cdot (2 \cdot y)$
$(5 \cdot 2) \cdot (x \cdot y)$

Find the value of each expression. If the value cannot be found, write 'not possible'.

15. $2^4 = \underline{16}$

18. $10^3 = \underline{1000}$

21. $4 \cdot 6 \cdot 25 = \underline{600}$
$4 \cdot 25 \cdot 6$
$100 \cdot 6$

25. $7 \div 0 = \underline{\text{not possible}}$

27. $0 \cdot 9 = \underline{0}$

30. $\frac{24}{8} = \underline{3}$

Find the value of each expression when x = 8. If the value cannot be found, write 'not possible'.

33. $x - 8 = \underline{0}$
$8 - 8$

35. $5(x - 8) = \underline{0}$
$5 \cdot (8 - 8)$
$5 \cdot 0$