20. Simplify 
$$\left(\frac{x^{2/3}y^{3/4}z^{-1/2}}{x^{-1/4}z^{-1/6}}\right)^{-6}$$
 so that there are no

negative exponents. Assume that all variables represent positive real numbers.

Simplify. Assume that all variables represent positive real numbers.

21. 
$$\sqrt{72x^9y^7z^4}$$

**22.** 
$$\sqrt{50x} + 3\sqrt{2x} - 2\sqrt{32x}$$

**23.** 
$$(3+4\sqrt[3]{2})(5-\sqrt[3]{4})$$

- 24. Rationalize the denominator of  $\frac{12}{5-2\sqrt{7}}$  and simplify.
- 25. The wind chill factor w is given by the equation  $w = 91.4 (91.4 T)(.478 + .301\sqrt{v} .02v)$ , where T represents the temperature in degrees Fahrenheit and v represents the wind velocity. Find the wind chill factor when the temperature is  $-40^{\circ}$ F and the wind velocity is 15 mph. (Round to the nearest tenth.)