NAME_____DATE_____PER._____

SIMPLIFYING RADICAL EXPRESSIONS

Simplify.

1) $\sqrt{9c^2}$ =	2) $\sqrt{c^2d^2}$ =
3) $\sqrt{4x^4y^8}$ =	4) $\sqrt{25r^8s^{16}t^{12}}$ =
5) $\sqrt{x^{11}}$ =	6) $\sqrt{x^2y^3}$ =
7) $\sqrt{49a}$ =	8) $\sqrt{27m^2}$ =
9) $6\sqrt{8r^3}$ =	10) $\sqrt{20x^2y^3}$ =
11) $-7\sqrt{24a^3b^7}$ =	12) $x^2\sqrt{4x^6y^4z^5}$ =

13) $\sqrt{9a^3b^3c^6}$ =	14) $\sqrt{12r^4s^5t^8}$ =
15) $\sqrt{72x^5y^4z^7}$ =	16) $5u^2z\sqrt{18y^3u^6z^8}$ =
17) $rs^2t\sqrt{50r^9s^9t^7}$ =	18) $\sqrt{625}$ =
19. What is the equation of a line that has a slope of 4 and goes through the point (3, -2)?	20. What is the x-intercept of the line 4x – y = 12?

Answers in random order: $xy\sqrt{y}$, $12r\sqrt{2r}$, $-14ab^3\sqrt{6ab}$, $6x^2y^2z^3\sqrt{2xz}$, $x^5\sqrt{x}$, (3, 0), $y = 4x - 14$, cd, $2x^2y^4$, $3m\sqrt{3}$, $3abc^3\sqrt{ab}$, $15yu^5z^5\sqrt{2y}$, $5r^5s^6t^4\sqrt{2rst}$, $2x^5y^2z^2\sqrt{z}$, 25, 3c, $5r^4s^8t^6$, $2xy\sqrt{5y}$, $2r^2s^2t^4\sqrt{3s}$, $7\sqrt{a}$