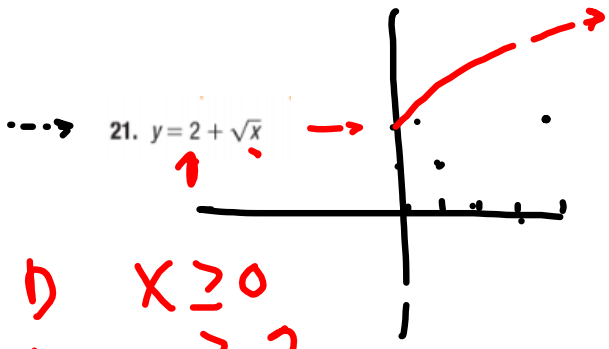
Algebra 2

Review Ch. 6

3:30

21. $y = 2 + \sqrt{x}$



D $x \geq 0$

R $y \geq 2$

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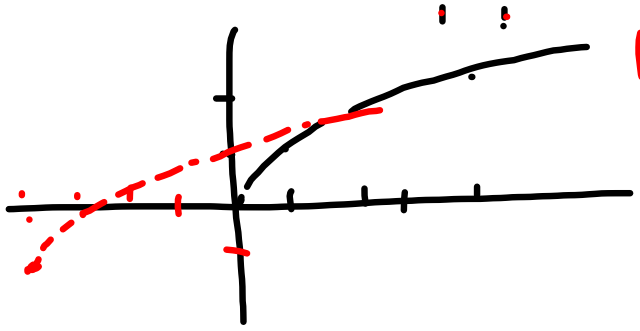
Graph each function. State the domain and range of each function. (Lesson 6-3)

21. $y = 2 + \sqrt{x}$

22. $y = \sqrt{x+4} - 1$



D $x \geq -4$

R $y \geq -1$

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Simplify. (Lesson 6-4)

24. $\pm\sqrt{121a^4b^{18}}$

$\pm 11a^2b^9$

25. $\sqrt{(x^4+3)^{12}}$

$(x^4+3)^6$

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28. $\sqrt[3]{8(x+4)^6}$

$2(x+4)^2$

29. $\sqrt[4]{16(y+x)^8}$

$2(y+x)^2$

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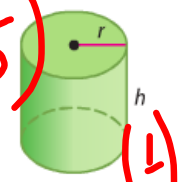
**30. MULTIPLE CHOICE** The radius of the cylinder below is equal to the height of the cylinder. The radius $r$ can be found using the formula $r = \sqrt[3]{\frac{V}{\pi}}$. Find the radius of the cylinder if the volume is 500 cubic inches. (Lesson 6-4)




$V = \text{area} \cdot h$

$r = \sqrt[3]{\frac{V}{\pi}}$

$r = \sqrt[3]{\frac{500}{\pi}}$

$\left(\frac{500}{\pi}\right)^{\left(\frac{1}{3}\right)} \approx 5.42$

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p 443 #40

ET p 441 (ish)

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alg2.Cindy.mar26 Turn in HW folder

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