March 27, 2015

$g(x) = -\sqrt{-x+2} + 5$

$-x + 2 \geq 0$

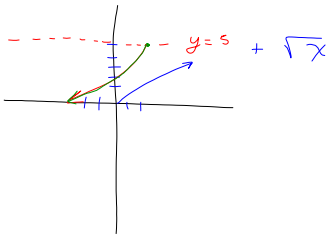
$h = 2$

$k = 5$

$-x \geq -2$

$x \leq 2$

D: $(-\infty, 2]$



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$$\frac{\sqrt[6]{s}}{\sqrt[5]{s}} = \frac{s^{1/6}}{s^{1/5}} = s^{\frac{1}{6}-\frac{1}{5}=\frac{5-6}{30}} = s^{-\frac{1}{30}} = \frac{1}{s^{1/30}} = \frac{1}{\sqrt[30]{s}}$$

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$$\frac{\sqrt[5]{96a^{12}b}}{\sqrt[5]{3a^2b^{-4}}} = \sqrt[5]{\frac{96a^{12}b}{3a^2b^{-4}}}$$

$b^{1-(-4)} = b^5$

$$= \sqrt[5]{32a^{10}b^5}$$

$$= 2a^2b$$

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$6^2 \div 2(3) + 4$

$36 \div 2(3) + 4$

$18(3) + 4$

$54 + 4$

58

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10.5

#9) $\frac{\sqrt{a}}{(\sqrt{a}-\sqrt{b})} \cdot \frac{(\sqrt{a}+\sqrt{b})}{(\sqrt{a}+\sqrt{b})} = \frac{a\sqrt{ab}}{a-b}$

Conjugate pairs

F: $\sqrt{a} \cdot \sqrt{a} = \sqrt{a^2} = a$

O: $\sqrt{a} \cdot \sqrt{b} = \sqrt{ab}$

I: $-\sqrt{b} \cdot \sqrt{a} = -\sqrt{ab}$

L: $-\sqrt{b} \cdot \sqrt{b} = -\sqrt{b^2} = -b$

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