

$(3a^2b^5)(-2ab^3)$   
 $-6a^3b^8$

$\frac{4a^{-3}d^2}{8a^2d^{-5}}$   
 $\frac{1d^2d^5}{2a^3a^2}$   
 $\frac{1d^7}{2a^5}$

$\frac{1a^{-3-2}d^{2-5}}{2}$   
 $\frac{1a^{-5}d^{-3}}{2}$   
 $\frac{1d^7}{2a^5}$

$x^2 \cdot x^3 = x^5$   
 add  
 $(x^2)^3 = x^6$   
 multiply  
 $\frac{x^2}{x^3} = x^{-1}$   
 subtract (top - bottom)  
 $x^{-2} = \frac{1}{x^2}$   
 take reciprocal to make exp pos.

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$\frac{5\sqrt{2}}{(\sqrt{10}-3)} \cdot \frac{(\sqrt{10}+3)}{(\sqrt{10}+3)}$

$= \frac{5\sqrt{20} + 15\sqrt{2}}{10 + \cancel{3\sqrt{10}} - \cancel{3\sqrt{10}} - 9}$

$= \frac{5\sqrt{20} + 15\sqrt{2}}{10\sqrt{5} + 15\sqrt{2}}$

$5\sqrt{20}$   
 $5\sqrt{4 \cdot 5}$   
 $10\sqrt{5}$

$a^2 - b^2$   
 $(a+b)(a-b)$

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<p style="color: green;">Fungi A</p> <p style="color: green;">3.55% / min</p> <p style="color: green;">.0355 / 60 sec</p> <p style="color: green;"><math>A = (1 + 0.0355)^1</math></p> <p style="color: green;"><math>= 1.0355</math></p> <p style="color: green;"> <math display="block">\begin{array}{r} 1.0366 \\ - 1.0355 \\ \hline .0011 \end{array}</math> </p>	<p style="color: blue;">Fungi B</p> <p style="color: blue;">.06% / sec</p> <p style="color: blue;">.0006 / 1 sec</p> <p style="color: green; text-align: center;">OR</p> <div style="border: 1px solid green; padding: 5px; display: inline-block; margin-bottom: 10px;"> <p style="color: blue;">.0006 / 60 sec</p> </div> <p style="color: blue;"><math>= (1 + 0.0006)^{60}</math></p> <p style="color: blue;"><math>= 1.0366</math></p>
<p style="color: green;">.11% faster</p>	

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64

8 8

2 2 2 2 2 2

$64^{2x+3} = 2$

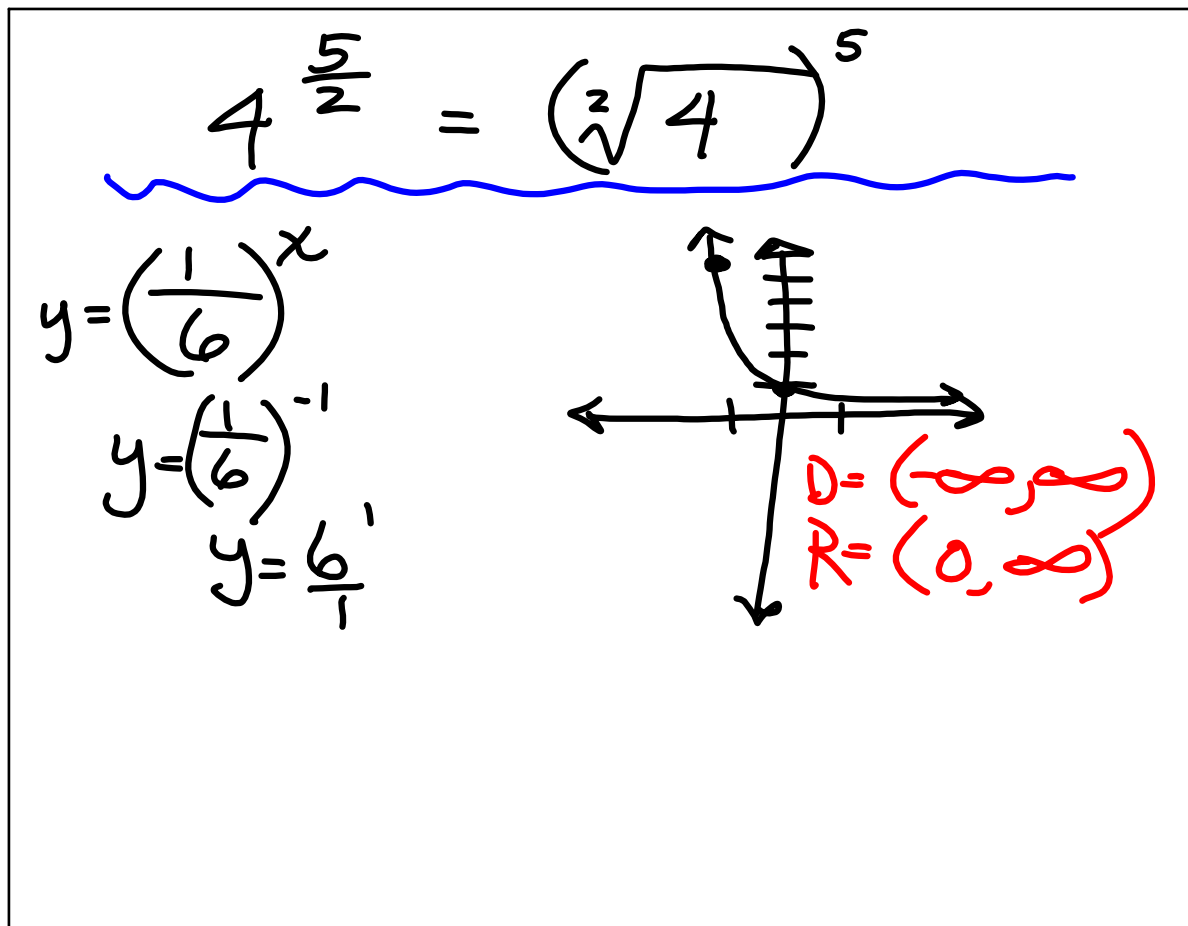
$(2^6)^{2x+3} = 2$

$2^{12x+18} = 2^1$

$$\begin{array}{r} 12x + 18 = 1 \\ -18 \quad -18 \\ \hline 12x = -17 \\ \hline \frac{12x}{12} = \frac{-17}{12} \end{array}$$

$x = \frac{-17}{12}$

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