

$$\log(x-15) + \log x = 2$$

$$\log(x(x-15)) = 2$$

$$\log(x^2 - 15x) = 2$$

$$10^2 = x^2 - 15x$$

⋮
⋮
⋮

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$$6(1.05)^x = 29$$

$$(1.05)^x = \frac{29}{6}$$

$$\log_{1.05}\left(\frac{29}{6}\right) = x$$

$$\frac{\ln\left(\frac{29}{6}\right)}{\ln(1.05)} = x$$

$$\approx x$$

$$\rightarrow \ln(1.05)^x = \ln\left(\frac{29}{6}\right)$$

$$\frac{x \ln(1.05)}{\ln(1.05)} = \frac{\ln\left(\frac{29}{6}\right)}{\ln(1.05)}$$

$$x = \int$$

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$x^2 - 25 > 0$

$(x-5)(x+5) > 0$

SIGN LINE

$\left\{ x \mid x < -5 \text{ or } x > 5 \right\}$

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$4x^2 < 64$

$4x^2 - 64 < 0$

$4(x^2 - 16) < 0$

$4(x+4)(x-4) < 0$

$\left\{ x \mid -4 < x < 4 \right\}$

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$$(3-x)(x+2)(1-x) < 0$$

$3-x$
 $-x+2$
 $1-x$

\ominus $+$ \ominus $+$

$\{x \mid x < -2 \text{ or } 1 < x < 3\}$

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$$\frac{(n+1)(n-1)}{1} \left(\frac{3}{n-1} - \frac{1}{n+1} \right) = \left(\frac{3}{n^2-1} \right) \frac{(n+1)(n-1)}{1}$$

$$3(n+1) - 1(n-1) = 3$$

$$3n+3 - n+1 = 3-4$$

$$\frac{2n}{2} = \frac{-1}{2}$$

$n = -\frac{1}{2}$

May 24-10:44 AM