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2. [-/0.5 Points] DETAILS SWOKPRECALC13 3.3.023.MI.

Find the zeros of  $f(x)$ , and state the multiplicity of each zero. (Order your answers from smallest to largest  $x$ .)

$$f(x) = (x^2 + x - 6)^3(x^2 - 4)^5$$

$x =$   with multiplicity

$x =$   with multiplicity

$x =$   with multiplicity

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3. [-/0.5 Points] DETAILS SWOKPRECALC13 3.4.009.

A polynomial  $f(x)$  with real coefficients and leading coefficient 1 has the given zeros and degree. Express  $f(x)$  as a product of linear and/or quadratic polynomials with real coefficients that are irreducible over  $\mathbb{R}$ .

0,  $-6i$ ,  $3 - i$ ; degree 5

$f(x) =$

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Simplify  $f(x)$ .

$$f(x) = \frac{x^2 - x - 20}{x^2 - 2x - 15}$$

$f(x) =$   for  $x \neq$   Your answer cannot be understood or graded. More Information

Sketch the graph of  $f$ .

The  $xy$ -coordinate plane is given. A curve, a vertical dashed line, and a horizontal dashed line are graphed.

- A vertical dashed line crosses the  $x$ -axis at  $x = -3$ .
- A horizontal dashed line crosses the  $y$ -axis at  $y = 1$ .
- The curve with 2 parts enters the window almost horizontally below  $y = 1$ , goes down and right becoming more steep, crosses the  $x$ -axis at  $x = -4$ , exits almost vertically just to the left of  $x = -3$ , reenters almost vertically just to the right of  $x = -3$ , goes down and right becoming less steep, crosses the  $y$ -axis at approximately  $y = 1.3$ , passes through the approximate point  $(5, 1.1)$  marked with an open circle, and exits the window almost horizontally above  $y = 1$ .

8. [0/0.5 Points]

DETAILS

PREVIOUS ANSWERS

SWOKPRECALC13 4.1.049.

Find the inverse function of  $f$ .

$$f(x) = x^2 - 2x, \quad x \geq 1$$

$$f^{-1}(x) = \text{[input box]}$$

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9. [-0.5 Points]

DETAILS

SWOKPRECALC13 4.2.010.

Solve the equation. (Enter your answers as a comma-separated list.)

$$9^{8x} \cdot \left(\frac{1}{3}\right)^{4x+2} = 27 \cdot (3^x)^{-8}$$

$$x = \text{[input box]}$$

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10. [-0.5 Points]

DETAILS

SWOKPRECALC13 4.2.039.

Find an exponential function of the form  $f(x) = ba^{-x} + c$  that has the given horizontal asymptote and  $y$ -intercept and passes through point  $P$ .

$$y = 29; \quad y\text{-intercept } 164; \quad P(2, 89)$$

$$f(x) = \text{[input box]}$$

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11. [-0.5 Points]

DETAILS

SWOKPRECALC13 4.3.020.

11. [-/0.5 Points] DETAILS SWOKPRECALC13 4.3.020.

Find the zeros of  $f$ . (Enter your answers as a comma-separated list.)

$$f(x) = x^2(2e^{5x}) + 8xe^{5x} + 31e^{5x} + 8xe^{5x}$$

$x =$

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12. [-/0.5 Points] DETAILS SWOKPRECALC13 4.3.021.

Simplify the expression. (Do not expand the expression in the denominator.)

$$\frac{(e^{9x} + e^{-9x})(e^{9x} + e^{-9x}) - (e^{9x} - e^{-9x})(e^{9x} - e^{-9x})}{(e^{9x} + e^{-9x})^2}$$

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13. [-/0.5 Points] DETAILS SWOKPRECALC13 4.3.008.

How much money, invested at an interest rate of  $r\%$  per year compounded continuously, will amount to  $A$  dollars after  $t$  years? (Round your answer to the nearest cent.)

$$A = 15,000, \quad r = 4.9, \quad t = 6$$

\$

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14. [-/0.5 Points] DETAILS SWOKPRECALC13 4.3.011.

Solve the equation. (Enter your answers as a comma-separated list.)

14. [-/0.5 Points] **DETAILS** SWOKPRECALC13 4.3.011.

Solve the equation. (Enter your answers as a comma-separated list.)

$$e^{(x^2)} = e^{7x - 12}$$

x =

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15. [-/0.5 Points] **DETAILS** SWOKPRECALC13 4.5.031.

Solve the equation. (Enter your answers as a comma-separated list. If there is no solution, enter NO SOLUTION.)

$$\log(x + 7) = 1 - \log(x - 6)$$

x =

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16. [-/0.5 Points] **DETAILS** SWOKPRECALC13 4.6.062.

Solve the compound interest formula

$$A = P \left( 1 + \frac{r}{n} \right)^{nt}$$

for t by using natural logarithms.

t =

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17. [-/0.5 Points] **DETAILS** SWOKPRECALC13 4.6.025.

17. [-/0.5 Points] DETAILS SWOKPRECALC13 4.6.025.

Find the exact solution, using common logarithms. (Enter your answers as a comma-separated list. If there is no solution, enter NO SOLUTION.)

$$2^x + 8(2^{-x}) = 6$$

x =

Find a two-decimal-place approximation of each solution. (Enter your answers as a comma-separated list. If there is no solution, enter NO SOLUTION.)

x =

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18. [-/0.5 Points] DETAILS SWOKPRECALC13 4.6.035.

Solve the equation without using a calculator. (Enter your answers as a comma-separated list.)

$$e^{2x} + 5e^x - 24 = 0$$

x =

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19. [-/0.5 Points] DETAILS SWOKPRECALC13 4.6.045.

Use common logarithms to solve for x in terms of y. (Enter your answers as a comma-separated list.)

$$y = \frac{10^x + 10^{-x}}{8}$$

x =

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20. [-/0.5 Points]

DETAILS

SWOKPRECALC13 4.6.047.

Use common logarithms to solve for  $x$  in terms of  $y$ . (Enter your answers as a comma-separated list.)

$$y = \frac{10^{7x} - 10^{-7x}}{10^{7x} + 10^{-7x}}$$

$x =$

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