S17 ABC2 - January 24 - Version 1 (10235143)

Due: Tue, Jan 24, 2017 06:30 PM EST

Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

Description

Created by J. Skufca on 1 Sep 2015 as a possible ABC II test version

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1. Question Details ABC TangLine V1 slope-int form mod1 [2644848]

Find the equation for the line tangent to the curve $y = 3+x^3$ at $x = -2$. Give your answer in *slope-intercept* form.

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2. Question Details ABC trig_inverse arctan [2639320]

Find the exact value of:

(a) $\arctan\left(1\right)$

(Enter your answer in radians.)

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3. Question Details ABC SPECIAL Q3 V1 [2678914]

Solve for p :

$$-3+\frac{2}{p} = 2.$$

$p =$

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4. Question Details ABC complete_square V1 [2599922]

Rewrite by completing the square:

$s^2+2s =$.

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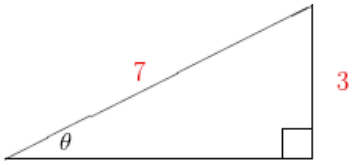
5. Question Details ABC SPECIAL Q5 V1 [2679070]



$\cos(\theta) =$

6. Question Details ABC SPECIAL Q6 V1 [2679080]

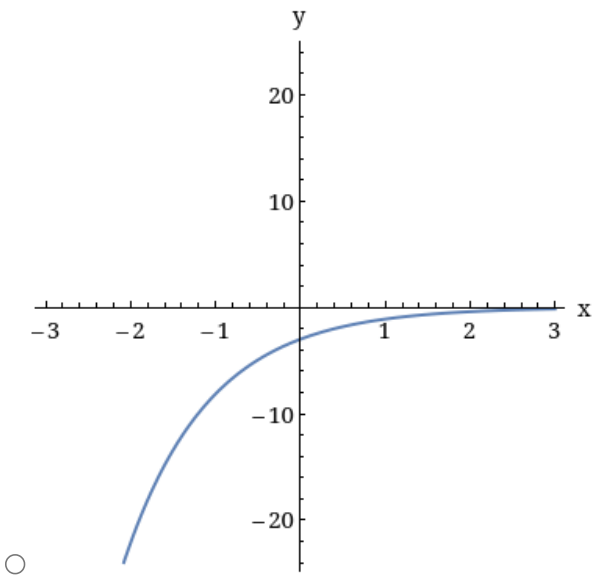
Solve for r :

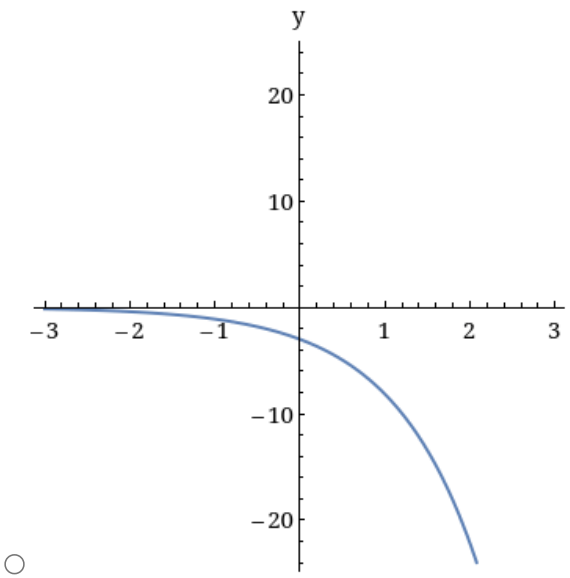
$$4e^{2r} = 1.$$

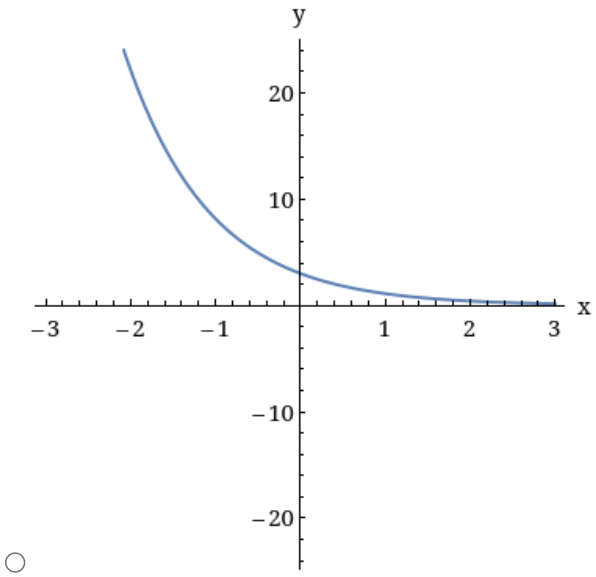
$r =$

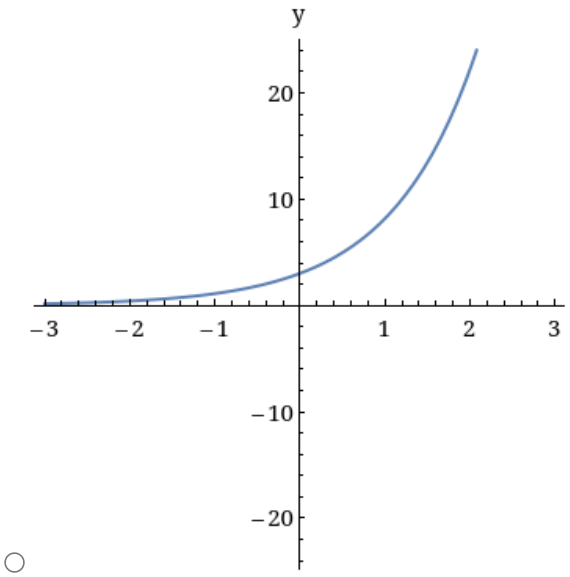
7. Question Details ABC SPECIAL Q7 [2679086]

Which graph shows the function $y=f(x) = -3e^x$









8. Question Details ABC SPECIAL Q8 V1 [2679131]

Solve for p :

$$7^{p/2} = 8.$$

p =

9. Question Details ABC SPECIAL Q9 V1 [2679364]

If $f(x) = 3x^4 - 2x^2 + 8x - 8$,
then find the derivative

$f'(x)$ =

10. Question Details ABC SPECIAL Q10 V1 [2679369]

If $f(t) = 2\ln(t)$,
then find the derivative

$f'(t)$ =

11. Question Details ABC SPECIAL Q11 V1 [2679393]

If $y = \sqrt{x+1}$,
then find the derivative

$\frac{dy}{dx}$ =

12. Question Details ABC SPECIAL Q12 V1 [2679396]

If $y = \ln(4-x)\}$,
then find the derivative

$\frac{dy}{dx}$ =

13. Question Details ABC SPECIAL Q13 V1 [2679452]

Find the derivative of $f(x) = (2x^2-1)\tan(x)$.

$f'(x)$ =

14. Question Details ABC SPECIAL Q14 V2 [2679528]

Find the derivative of $f(x) = \frac{e^x+2}{x}$.

$f'(x)$ =

15. Question Details ABC SPECIAL Q15 V1 [2679540]

Find the derivative of $f(x) = \dfrac{x^3}{\sin(x)}$.

$f'(x) =$ [ ]

16. Question Details ABC aderiv 2.0 V3 (sin) [2679554]

Find a function $f(t)$ whose derivative is:
$f'(t) = \sin(t) + 4t$.

$f(t) =$ [ ] $+ C$.

17. Question Details ABC SPECIAL Q17 V1 [2680279]

Evaluate the indefinite integral:

$\int -\sin\left(\frac{x}{3}\right) dx =$ [ ] $+ C$.

18. Question Details ABC SPECIAL Q18 V1 [2680290]

Evaluate the indefinite integral:

$$\int te^{t^2} dt = \text{[ ]} + C.$$

19. Question Details ABC SPECIAL Q19 V1 [2680298]

Evaluate the definite integral:

$\int_1^2 \left(6t+4\right) dt =$ [ ] .

20. Question Details ABC SPECIAL Q20 V1 [2680315]

Evaluate the definite integral:

$\int_0^2 \frac{1}{e^{-2x}} dx =$ [ ] .

Assignment Details