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$$\bigcirc 6 \bigcirc 6$$

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$$\bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9$$

← Please encode your student number, and write your first and last names below.

First name and last name

Find the derivative f'(x) of $f(x) = 3x^4 + 3x^3 + 6x^2 + 4x + 2$.

Find the derivative f'(x) of $f(x) = 5 - \frac{3}{x} + \frac{3}{x^2}$.

$$\int 5-\frac{3}{x}$$

$$\frac{3}{x^2} - \frac{6}{x^3}$$

$$\int \frac{3}{x^2} - \frac{3}{x^3}$$

$$\bigcirc \quad -\frac{3}{x^2} + \frac{6}{x^3}$$

$$\bigcirc \quad 5 - \frac{3}{x} \qquad \qquad \boxed{ \qquad } \quad \frac{3}{x^2} - \frac{6}{x^3} \qquad \qquad \bigcirc \quad \frac{3}{x^2} - \frac{3}{x^3} \qquad \qquad \bigcirc \quad -\frac{3}{x^2} + \frac{6}{x^3} \qquad \qquad \bigcirc \quad -\frac{3}{x^2} + \frac{3}{x^3}$$

3 Find the derivative
$$f'(x)$$
 of $f(x) = x^{\frac{7}{2}}$.

$$\frac{7}{2}x^{\frac{5}{2}}$$

$$\bigcirc \quad \frac{5}{2}x^{\frac{5}{2}}$$

$$\bigcirc \quad \frac{7}{2}x^{\frac{7}{2}}$$

$$\bigcirc \quad \frac{9}{2}x^{\frac{5}{2}}$$

Find the derivative f'(x) of $f(x) = x^{\frac{7}{3}} - x^{-\frac{13}{4}}$.

$$\bigcirc \quad \frac{7}{3}x^{-\frac{4}{3}} + \frac{13}{4}x^{-\frac{9}{4}} \qquad \qquad \bigcirc \quad \frac{7}{3}x^{\frac{4}{3}} + \frac{13}{4}x^{-\frac{17}{4}} \qquad \qquad \bigcirc \quad \frac{7}{3}x^{\frac{7}{3}} + \frac{13}{4}x^{-\frac{9}{4}} \qquad \qquad \bigcirc \quad \frac{4}{3}x^{\frac{7}{3}} + \frac{13}{4}x^{-\frac{9}{4}} \qquad \qquad \bigcirc \quad \frac{4}{3}x^{\frac{7}{3}} + \frac{13}{4}x^{-\frac{9}{4}} \qquad \bigcirc \quad \frac{4}{3}x^{\frac{7}{3}} + \frac{13}{4}x^{-\frac{9}{4}} \qquad \bigcirc \quad \frac{4}{3}x^{\frac{7}{3}} + \frac{13}{4}x^{-\frac{9}{4}} \qquad \qquad \bigcirc \quad \frac{4}{3}x^{\frac{7}{3}} + \frac{13}{4}x^{\frac{9}{4}} \qquad \qquad \bigcirc \quad \frac{4}{3}x^{\frac{9}{3}} + \frac{13}{4}x^{\frac{9}{3}} \qquad \qquad \bigcirc \quad \frac{4$$

$$0 \quad \frac{4}{3}x^{\frac{7}{3}} + \frac{13}{4}x^{-\frac{9}{4}}$$

Find the derivative f'(x) of $f(x) = (x^2 + 1)(2x + 1)$. 5

$$6x^2 \perp 2x \perp 6$$

$$\bigcap$$
 4τ

$$\bigcap$$
 $6x^2 + 2x$

6 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{2}{2x^2 + 5x + 7}$

$$\frac{8x+10}{2x^2+5x+7}$$

$$\bigcirc \quad \frac{8x+10}{2x^2+5x+7} \qquad \quad \bigcirc \quad \frac{8x+10}{(2x^2+5x+7)^2} \qquad \quad \blacksquare \quad -\frac{8x+10}{(2x^2+5x+7)^2} \qquad \quad \bigcirc \quad -\frac{8x+10}{2x^2+5x+7}$$

$$-\frac{8x+10}{2x^2+5x+7}$$

7 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{4x+7}{5x+8}$.

$$\bigcirc \quad \frac{4}{5x+8}$$

$$\bigcirc \quad \frac{4}{5x+8} \qquad \bigcirc \quad \frac{4}{(5x+8)^2} \qquad \bigcirc \quad \frac{5}{5x+8} \qquad \qquad \blacksquare \quad \frac{-3}{(5x+8)^2} \qquad \bigcirc \quad \frac{-3}{5x+8}$$

$$\bigcirc \quad \frac{5}{5x+8}$$

$$\frac{-3}{(5x+8)^2}$$

$$\bigcirc \quad \frac{-3}{5x+8}$$

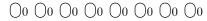
8 Find the derivative
$$f'(x)$$
 of $f(x) = (6x + 5)^7$.

$$\bigcap 7(6x+5)^{n}$$

$$\bigcirc 7(6x+5)^7$$
 $\blacksquare 42(6x+5)^6$ $\bigcirc 7(6x+5)^6$ $\bigcirc 42(6x+5)^7$

$$0 7(6x+5)^6$$

$$\bigcirc$$
 42(6x + 5)



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Find the derivative f'(x) of $f(x) = 7x^4 + 4x^3 + 3x^2 + 2x + 6$.

Find the derivative f'(x) of $f(x) = 3 - \frac{4}{x} + \frac{1}{x^2}$. $\mathbf{2}$

$$\bigcirc$$
 3 - $\frac{4}{x}$

$$\frac{4}{r^2} - \frac{2}{r^3}$$

$$\bigcirc \quad 3 - \frac{4}{x} \qquad \qquad \bigoplus \quad \frac{4}{x^2} - \frac{2}{x^3} \qquad \qquad \bigcirc \quad -\frac{4}{x^2} + \frac{1}{x^3} \qquad \qquad \bigcirc \quad -\frac{4}{x^2} + \frac{2}{x^3} \qquad \qquad \bigcirc \quad \frac{4}{x^2} - \frac{1}{x^3}$$

$$\bigcirc \quad -\frac{4}{x^2} + \frac{2}{x^3}$$

$$\bigcirc \quad \frac{4}{x^2} - \frac{1}{x^3}$$

3 Find the derivative
$$f'(x)$$
 of $f(x) = x^{\frac{11}{3}}$.

$$\bigcirc \quad \frac{9}{3}x^{\frac{8}{3}}$$

$$\bigcirc$$
 $\frac{8}{3}x^{\frac{1}{2}}$

$$\int \frac{11}{3} x^{\frac{11}{3}}$$

$$\bigcirc \quad \frac{13}{3}x^{\frac{8}{3}}$$

Find the derivative f'(x) of $f(x) = x^{\frac{7}{3}} - x^{-\frac{7}{4}}$.

$$\bigcirc \frac{4}{3}x^{\frac{7}{3}} + \frac{7}{4}x^{-\frac{3}{4}} \\
\bigcirc \frac{7}{3}x^{\frac{7}{3}} + \frac{7}{4}x^{-\frac{3}{4}}$$

Find the derivative f'(x) of $f(x) = (x^2 + 1)(2x + 3)$. 5

$$\bigcap$$
 $6x^2 \perp 6x$

$$\bigcirc 6x^2 + 6x$$
 $\bigcirc 6x^2 + 6x + 3$ $\bullet 6x^2 + 6x + 2$ $\bigcirc 4x$

$$6x^2 \pm 6x \pm 6$$

$$\bigcap 4r$$

6 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{6}{2x^2 + 5x + 6}$.

$$-\frac{24x+30}{(2x^2+5x+6)^2}$$

$$-\frac{24x+30}{(2x^2+5x+6)^2} \qquad \bigcirc \quad -\frac{24x+30}{2x^2+5x+6} \qquad \bigcirc \quad \frac{24x+30}{2x^2+5x+6} \qquad \bigcirc \quad \frac{24x+30}{(2x^2+5x+6)^2}$$

$$\bigcirc \quad \frac{24x + 30}{2x^2 + 5x + 6}$$

7 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{2x+5}{11x+8}$.

$$\frac{-39}{11x+8}$$

$$\frac{-31}{11x+8}$$

$$\bigcirc \quad \frac{-39}{11x+8} \qquad \bigcirc \quad \frac{-31}{11x+8} \qquad \bigcirc \quad \frac{2}{(11x+8)^2} \qquad \bigcirc \quad \frac{2}{11x+8}$$

$$\bigcirc \quad \frac{2}{11x+8}$$

$$\frac{-39}{(11x+8)^2}$$

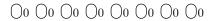
8 Find the derivative
$$f'(x)$$
 of $f(x) = (2x+6)^7$.

$$\bigcap 7(2x+6)^{6}$$

$$\bigcirc 7(2x+6)^6 \qquad \bigcirc 14(2x+6)^7 \qquad \bigcirc 7(2x+6)^7 \qquad \blacksquare 14(2x+6)^6$$

$$0 7(2x+6)^7$$

$$14(2x+6)$$



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$$\bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9$$

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Find the derivative f'(x) of $f(x) = 6x^4 + 3x^3 + 5x^2 + 6x + 2$.

$$\bigcirc 6x^4 + 3x^3 + 5x^2 + 6x + 2 \bigcirc 24x^3 + 9x^2 + 12x + 6 \bigcirc 6x^4 + 6x^3 + 5x^2 + 6x$$

$$\bigcirc 24x^3 + 9x^2 + 10x + 8 \bigcirc 24x^3 + 9x^2 + 10x + 6$$

Find the derivative f'(x) of $f(x) = 1 - \frac{1}{x} + \frac{1}{x^2}$.

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

$$0 1 - \frac{1}{\pi}$$

$$\bigcirc \quad -\frac{1}{x^2} + \frac{2}{x^3} \qquad \bigcirc \quad 1 - \frac{1}{x} \qquad \bigcirc \quad -\frac{1}{x^2} + \frac{1}{x^3} \qquad \bigcirc \quad \frac{1}{x^2} - \frac{1}{x^3} \qquad \qquad \blacksquare \quad \frac{1}{x^2} - \frac{2}{x^3}$$

$$\bigcirc \quad \frac{1}{x^2} - \frac{1}{x^3}$$

$$\frac{1}{x^2} - \frac{2}{x^2}$$

3 Find the derivative
$$f'(x)$$
 of $f(x) = x^{\frac{7}{3}}$.

$$\int \frac{5}{9}x^{\frac{4}{3}}$$

$$\bigcirc \quad \frac{5}{3}x^{\frac{4}{3}} \qquad \bigcirc \quad \frac{9}{3}x^{\frac{4}{3}} \qquad \bigcirc \quad \frac{7}{3}x^{\frac{7}{3}} \qquad \qquad \blacksquare \quad \frac{7}{3}x^{\frac{4}{3}} \qquad \bigcirc \quad \frac{4}{3}x^{\frac{4}{3}}$$

$$\bigcirc \quad \frac{7}{3}x^{\frac{7}{3}}$$

$$\frac{7}{3}x^{\frac{5}{2}}$$

$$\int \frac{4}{3}x^{\frac{4}{3}}$$

Find the derivative f'(x) of $f(x) = x^{\frac{7}{3}} - x^{-\frac{13}{6}}$.

$$\bigcirc \quad \frac{4}{3}x^{\frac{4}{3}} - \frac{13}{6}x^{\frac{7}{6}}$$

$$\bigcirc \quad \frac{4}{3}x^{\frac{4}{3}} - \frac{13}{6}x^{\frac{7}{6}} \qquad \qquad \bigcirc \quad \frac{7}{3}x^{\frac{4}{3}} + \frac{13}{6}x^{-\frac{19}{6}} \qquad \qquad \bigcirc \quad \frac{7}{3}x^{\frac{4}{3}} - \frac{13}{6}x^{-\frac{19}{6}} \qquad \qquad \bigcirc \quad \frac{7}{3}x^{\frac{7}{3}} + \frac{13}{6}x^{-\frac{7}{6}} \qquad \qquad \bigcirc \quad \frac{7}{3}x^{\frac{7}{3}} + \frac{13}{6}x^{-\frac{7}{6}}$$

$$0 \quad \frac{7}{3}x^{\frac{7}{3}} + \frac{13}{6}x^{-\frac{7}{6}}$$

Find the derivative f'(x) of $f(x) = (x^2 + 2)(3x + 6)$. 5

$$\bigcap$$
 $9x^2 \perp 12a$

$$\bigcirc$$
 $6x$

$$\bigcirc 9x^2 + 12x$$
 $\bigcirc 6x$ $\bigcirc 9x^2 + 12x + 7$ $\bigcirc 9x^2 + 12x + 6$

$$9x^2 + 12x + 6$$

6 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{2}{6x^2 + 7x + 2}$.

$$\frac{24x+14}{(6x^2+7x+2)}$$

$$-\frac{24x+14}{6x^2+7x+2}$$

$$\bigcirc \quad \frac{24x+14}{6x^2+7x+2}$$

$$\bigcirc \quad \frac{24x+14}{(6x^2+7x+2)^2} \qquad \bigcirc \quad -\frac{24x+14}{6x^2+7x+2} \qquad \bigcirc \quad \frac{24x+14}{6x^2+7x+2} \qquad \bigcirc \quad -\frac{24x+14}{(6x^2+7x+2)^2}$$

7 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{8x+7}{5x+4}$.

$$\bigcirc \quad \frac{8}{(5x+4)^2}$$

$$\bigcirc \quad \frac{8}{(5x+4)^2} \qquad \qquad \bullet \quad \frac{-3}{(5x+4)^2} \qquad \quad \bigcirc \quad \frac{8}{5x+4} \qquad \quad \bigcirc \quad \frac{1}{5x+4} \qquad \quad \bigcirc \quad \frac{-3}{5x+4}$$

$$\bigcirc$$
 $\frac{8}{5x+4}$

$$\int \frac{1}{5x+4}$$

$$\bigcirc \quad \frac{-3}{5x+4}$$

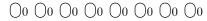
8 Find the derivative
$$f'(x)$$
 of $f(x) = (8x + 8)^9$.

$$9(8x+8)^9$$

$$\bigcirc 9(8x+8)^9 \qquad \bigcirc 72(8x+8)^9 \qquad \bullet 72(8x+8)^8 \qquad \bigcirc 9(8x+8)^8$$

$$72(8x+8)^8$$

$$9(8x+8)^{\frac{1}{2}}$$



$$\bigcirc 1 \ \bigcirc 1$$

$$\bigcirc 2 \bigcirc 2$$

$$\bigcirc 3 \bigcirc 3 \bigcirc 3 \bigcirc 3 \bigcirc 3 \bigcirc 3 \bigcirc 3$$

$$\bigcirc 4 \bigcirc 4$$

$$\bigcirc 5$$
 $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$

$$\bigcirc 6 \bigcirc 6$$

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7 \bigcirc 7

$$\bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9$$

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First name and last name

Find the derivative f'(x) of $f(x) = 6x^4 + 7x^3 + 2x^2 + 7x + 6$.

$$\bigcirc 6x^4 + 14x^3 + 2x^2 + 7x \qquad \bigcirc 24x^3 + 21x^2 + 6x + 7 \qquad \bigcirc 24x^3 + 21x^2 + 4x + 13$$

$$\bigcirc 6x^4 + 7x^3 + 2x^2 + 7x + 6 \qquad \bullet 24x^3 + 21x^2 + 4x + 7$$

Find the derivative f'(x) of $f(x) = 2 - \frac{3}{x} + \frac{2}{x^2}$.

$$\left(-\frac{3}{3} + \frac{2}{3} \right)$$

$$\frac{3}{x^2} - \frac{2}{x^3}$$

$$\bigcirc \quad -\frac{3}{x^2} + \frac{2}{x^3} \qquad \bigcirc \quad \frac{3}{x^2} - \frac{2}{x^3} \qquad \bigcirc \quad -\frac{3}{x^2} + \frac{4}{x^3} \qquad \bigcirc \quad 2 - \frac{3}{x} \qquad \qquad \blacksquare \quad \frac{3}{x^2} - \frac{4}{x^3}$$

$$\bigcirc 2 - \frac{3}{x}$$

3 Find the derivative
$$f'(x)$$
 of $f(x) = x^{\frac{7}{2}}$.

$$\frac{7}{9}x^{\frac{5}{2}}$$

$$\int \frac{5}{2}x^{\frac{5}{2}}$$

$$\int \frac{5}{2}x^{\frac{5}{2}}$$

$$\int \frac{7}{2}x^{\frac{7}{2}}$$

Find the derivative f'(x) of $f(x) = x^{\frac{7}{2}} - x^{-\frac{7}{5}}$.

$$0 \quad \frac{7}{2}x^{\frac{5}{2}} - \frac{7}{5}x^{-\frac{12}{5}}$$

$$\begin{array}{ccc}
& \frac{5}{2}x^{\frac{5}{2}} - \frac{7}{5}x^{\frac{2}{5}} \\
& \frac{7}{2}x^{\frac{5}{2}} + \frac{7}{5}x^{-\frac{1}{5}}
\end{array}$$

$$\bigcirc \quad \frac{7}{2}x^{\frac{5}{2}} - \frac{7}{5}x^{-\frac{12}{5}} \qquad \bigcirc \quad \frac{5}{2}x^{\frac{5}{2}} - \frac{7}{5}x^{\frac{2}{5}} \qquad \bigcirc \quad \frac{5}{2}x^{\frac{7}{2}} + \frac{7}{5}x^{-\frac{2}{5}} \qquad \bigcirc \quad \frac{7}{2}x^{-\frac{5}{2}} + \frac{7}{5}x^{-\frac{2}{5}} \\ \bullet \quad \quad \frac{7}{2}x^{\frac{5}{2}} + \frac{7}{5}x^{-\frac{12}{5}} \qquad \bigcirc \quad \frac{7}{2}x^{\frac{7}{2}} + \frac{7}{5}x^{-\frac{2}{5}}$$

Find the derivative f'(x) of $f(x) = (x^2 + 3)(5x + 3)$. 5

$$15x^2 \pm 6x \pm 15$$

$$0 15x^2 + 6x$$

$$\bigcap$$
 10 α

6 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{6}{3x^2 + 4x + 8}$.

$$\frac{36x+24}{3x^2+4x+8}$$

$$\bigcirc \quad \frac{36x+24}{3x^2+4x+8} \qquad \qquad \blacksquare \quad -\frac{36x+24}{(3x^2+4x+8)^2} \qquad \qquad \bigcirc \quad -\frac{36x+24}{3x^2+4x+8} \qquad \qquad \bigcirc \quad \frac{36x+24}{(3x^2+4x+8)^2}$$

$$-\frac{36x+24}{3x^2+4x+8}$$

7 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{8x+11}{5x+8}$.

$$\bigcirc \quad \frac{8}{5x+8}$$

$$\bigcirc \quad \frac{8}{5x+8} \qquad \bigcirc \quad \frac{8}{(5x+8)^2} \qquad \qquad \bullet \quad \frac{9}{(5x+8)^2} \qquad \qquad \bigcirc \quad \frac{9}{5x+8} \qquad \qquad \bigcirc \quad \frac{17}{5x+8}$$

$$\bigcirc$$
 $\frac{9}{5x+3}$

$$\bigcirc \quad \frac{17}{5x+8}$$

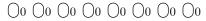
8 Find the derivative
$$f'(x)$$
 of $f(x) = (7x + 3)^9$.

$$9(7x+3)^9$$

$$\bigcirc 9(7x+3)^9$$
 $\bigcirc 63(7x+3)^8$ $\bigcirc 9(7x+3)^8$ $\bigcirc 63(7x+3)^9$

$$9(7x+3)^8$$

$$\bigcirc$$
 63(7x + 3)



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$$\bigcirc 3 \bigcirc 3$$

$$\bigcirc 4 \bigcirc 4$$

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$$\bigcirc 6 \bigcirc 6$$

$$\bigcirc 9 \bigcirc 9$$

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Find the derivative f'(x) of $f(x) = 2x^4 + 2x^3 + 3x^2 + 4x + 7$.

$$\bigcirc 2x^4 + 4x^3 + 3x^2 + 4x \\ \bullet 8x^3 + 6x^2 + 6x + 4 \\ \bigcirc 8x^3 + 6x^2 + 6x + 4 \\ \bigcirc 8x^3 + 6x^2 + 8x + 4$$

Find the derivative f'(x) of $f(x) = 1 - \frac{3}{x} + \frac{3}{x^2}$. $\mathbf{2}$

$$-\frac{3}{x^2} + \frac{3}{x^3}$$

$$0 1 - \frac{3}{x}$$

$$\bigcirc \quad -\frac{3}{x^2} + \frac{6}{x^3}$$

$$\frac{3}{x^2} - \frac{3}{x^3}$$

3 Find the derivative
$$f'(x)$$
 of $f(x) = x^{\frac{11}{3}}$.

$$\bigcirc \frac{9}{3}x^{\frac{5}{2}}$$

$$0 \frac{8}{3}x^{\frac{8}{3}}$$

$$\bigcirc \quad \frac{13}{3}x^{\frac{5}{3}}$$

$$\frac{11}{3}x^{\frac{3}{2}}$$

$$\bigcirc \quad \frac{9}{3}x^{\frac{8}{3}} \qquad \quad \bigcirc \quad \frac{8}{3}x^{\frac{8}{3}} \qquad \quad \bigcirc \quad \frac{13}{3}x^{\frac{8}{3}} \qquad \quad \blacksquare \quad \frac{11}{3}x^{\frac{8}{3}} \qquad \quad \bigcirc \quad \frac{11}{3}x^{\frac{11}{3}}$$

Find the derivative f'(x) of $f(x) = x^{\frac{7}{2}} - x^{-\frac{11}{4}}$.

$$\bigcirc \quad \frac{7}{2}x^{-\frac{5}{2}} + \frac{11}{4}x^{-\frac{7}{4}} \qquad \bigcirc \quad \frac{5}{2}x^{\frac{7}{2}} + \frac{11}{4}x^{-\frac{7}{4}} \qquad \bigcirc \quad \frac{7}{2}x^{\frac{7}{2}} + \frac{11}{4}x^{-\frac{7}{4}} \qquad \bigcirc \quad \frac{7}{2}x^{\frac{5}{2}} + \frac{11}{4}x^{-\frac{15}{4}} \qquad \bigcirc \quad \frac{7}{2}x^{\frac{5}{2}} + \frac{11}{4}x^{-\frac{15}{4}} \qquad \bigcirc \quad \frac{5}{2}x^{\frac{5}{2}} - \frac{11}{4}x^{\frac{7}{4}}$$

$$\begin{array}{ccc}
 & \frac{7}{2}x^{\frac{7}{2}} + \frac{11}{4}x^{-} \\
 & \frac{5}{2}x^{\frac{5}{2}} - \frac{11}{4}x^{\frac{7}{4}}
\end{array}$$

Find the derivative f'(x) of $f(x) = (x^2 + 3)(4x + 6)$. 5

$$\bigcap$$
 12 $x^2 \perp 12x \perp 13$

$$0 12x^2 + 12x$$

$$\bigcirc$$
 8x

$$\bigcirc 12x^2 + 12x + 13$$
 $\bigcirc 12x^2 + 12x$ $\bigcirc 8x$ $\blacksquare 12x^2 + 12x + 12$

Find the derivative f'(x) of $f(x) = \frac{7}{7x^2+4x+8}$.

$$\bigcirc \frac{98x + 28}{7x^2 + 4x + 8}$$

$$\bigcirc \quad \frac{98x+28}{7x^2+4x+8} \qquad \qquad \blacksquare \quad -\frac{98x+28}{(7x^2+4x+8)^2} \qquad \qquad \bigcirc \quad -\frac{98x+28}{7x^2+4x+8} \qquad \qquad \bigcirc \quad \frac{98x+28}{(7x^2+4x+8)^2}$$

$$-\frac{98x+28}{7x^2+4x+8}$$

7 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{8x+5}{3x+8}$.

$$\bigcirc \quad \frac{49}{3x+8}$$

$$\bigcirc \quad \frac{57}{3x+8}$$

$$\bigcirc \ \, \frac{49}{3x+8} \qquad \bigcirc \ \, \frac{57}{3x+8} \qquad \bigcirc \ \, \frac{8}{(3x+8)^2} \qquad \bigcirc \ \, \frac{8}{3x+8} \qquad \qquad \blacksquare \ \, \frac{49}{(3x+8)^2}$$

$$\frac{8}{3x+8}$$

$$\frac{49}{(3x+8)}$$

8 Find the derivative
$$f'(x)$$
 of $f(x) = (5x + 9)^8$.

$$\bigcirc 40(5x+9)^8$$
 $\bigcirc 8(5x+9)^8$ $\bigcirc 8(5x+9)^7$ $\bullet 40(5x+9)^7$

$$0 8(5x+9)^8$$

$$0 8(5x+9)$$

$$\bullet$$
 40(5x + 9)

$\bigcup 0$	$\bigcirc 0$						

$$\bigcirc 1$$
 $\bigcirc 1$ $\bigcirc 1$ $\bigcirc 1$ $\bigcirc 1$ $\bigcirc 1$ $\bigcirc 1$

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First name and last name

Find the derivative f'(x) of $f(x) = 4x^4 + 5x^3 + 4x^2 + 6x + 7$.

$$\bigcirc 4x^4 + 5x^3 + 4x^2 + 6x + 7 \bigcirc 16x^3 + 15x^2 + 10x + 6 \bigcirc 16x^3 + 15x^2 + 8x + 13$$

$$\bullet 16x^3 + 15x^2 + 8x + 6 \bigcirc 4x^4 + 10x^3 + 4x^2 + 6x$$

Find the derivative f'(x) of $f(x) = 3 - \frac{5}{x} + \frac{2}{x^2}$. $\mathbf{2}$

$$3 - \frac{5}{3}$$

$$-\frac{5}{r^2} + \frac{4}{r^3}$$

$$\bigcirc \quad 3 - \frac{5}{x} \qquad \bigcirc \quad -\frac{5}{x^2} + \frac{4}{x^3} \qquad \bigcirc \quad -\frac{5}{x^2} + \frac{2}{x^3} \qquad \bigcirc \quad \frac{5}{x^2} - \frac{2}{x^3} \qquad \blacksquare \quad \frac{5}{x^2} - \frac{4}{x^3}$$

$$\bigcirc \quad \frac{5}{x^2} - \frac{2}{x^3}$$

$$\frac{5}{x^2} - \frac{4}{x^2}$$

3 Find the derivative
$$f'(x)$$
 of $f(x) = x^{\frac{5}{2}}$.

$$\int \frac{5}{9}x^{\frac{5}{2}}$$

$$\bigcirc \quad \frac{5}{2}x^{\frac{5}{2}} \qquad \bigcirc \quad \frac{3}{2}x^{\frac{3}{2}} \qquad \bigcirc \quad \frac{3}{2}x^{\frac{3}{2}} \qquad \qquad \boxed{ } \quad \frac{5}{2}x^{\frac{3}{2}} \qquad \bigcirc \quad \frac{7}{2}x^{\frac{3}{2}}$$

$$\bigcirc \quad \frac{3}{2}x^{\frac{3}{2}}$$

$$-\frac{5}{2}x$$

$$\bigcirc \quad \frac{7}{2}x^{\frac{3}{2}}$$

Find the derivative f'(x) of $f(x) = x^{\frac{13}{3}} - x^{-\frac{11}{6}}$. 4

$$\begin{array}{ccc}
 & \frac{10}{3}x^{\frac{10}{3}} - \frac{11}{6}x^{\frac{5}{6}} \\
 & \frac{10}{3}x^{\frac{13}{3}} + \frac{11}{11}x^{-}
\end{array}$$

Find the derivative f'(x) of $f(x) = (x^2 + 4)(5x + 5)$. 5

$$\bigcirc$$
 10x

$$15r^2 + 10r + 20$$

$$\bigcap$$
 15 $x^2 + 10^4$

6 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{7}{4x^2 + 5x + 5}$.

$$-\frac{56x+35}{4x^2+5x+5}$$

$$\bigcirc \quad -\frac{56x+35}{4x^2+5x+5} \qquad \qquad \bigcirc \quad -\frac{56x+35}{(4x^2+5x+5)^2} \qquad \qquad \bigcirc \quad \frac{56x+35}{4x^2+5x+5} \qquad \qquad \bigcirc \quad \frac{56x+35}{(4x^2+5x+5)^2}$$

$$\frac{56x+35}{4x^2+5x+3}$$

7 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{2x+3}{7x+2}$.

$$\bigcirc \quad \frac{2}{7x+2}$$

$$\frac{-17}{(7x+2)^2}$$

$$\bigcirc$$
 $\frac{-15}{7x+2}$

$$\bigcirc \quad \frac{2}{7x+2} \qquad \qquad \bullet \quad \frac{-17}{(7x+2)^2} \qquad \quad \bigcirc \quad \frac{-15}{7x+2} \qquad \quad \bigcirc \quad \frac{2}{(7x+2)^2} \qquad \quad \bigcirc \quad \frac{-17}{7x+2}$$

$$\bigcirc$$
 $\frac{-17}{7x+5}$

8 Find the derivative
$$f'(x)$$
 of $f(x) = (2x+3)^7$.

$$\bigcap 7(2x+3)^6$$

$$\bigcirc 7(2x+3)^6$$
 $\bigcirc 14(2x+3)^7$ $\blacksquare 14(2x+3)^6$ $\bigcirc 7(2x+3)^7$

$$14(2x+3)^6$$

$$\bigcirc 7(2x+3)$$

$\bigcirc 0 \bigcirc 0$	$\bigcirc 0$							
---	--------------	--------------	--------------	--------------	--------------	--------------	--------------	--------------

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$$\bigcirc 7 \bigcirc 7$$

$$\bigcirc 8 \bigcirc 8$$

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First name and last name

Find the derivative f'(x) of $f(x) = 7x^4 + 5x^3 + 2x^2 + 2x + 9$.

Find the derivative f'(x) of $f(x) = 4 - \frac{3}{x} + \frac{4}{x^2}$. $\mathbf{2}$

$$\frac{3}{3} - \frac{8}{3}$$

$$\frac{3}{x^2} - \frac{4}{x^3}$$

$$0 4 - \frac{3}{x}$$

$$\bigcirc \quad -\frac{3}{x^2} + \frac{8}{x^3}$$

3 Find the derivative
$$f'(x)$$
 of $f(x) = x^{\frac{11}{2}}$.

$$\bigcirc \frac{9}{9}x^{\frac{9}{2}}$$

$$\frac{11}{2}x$$

$$\bigcirc \quad \frac{9}{2}x^{\frac{9}{2}}$$

$$\bigcap \frac{13}{2}x^{\frac{5}{2}}$$

$$\bigcirc \ \ \, \frac{9}{2}x^{\frac{9}{2}} \qquad \qquad \quad \bullet \ \ \, \frac{11}{2}x^{\frac{9}{2}} \qquad \qquad \bigcirc \ \ \, \frac{9}{2}x^{\frac{9}{2}} \qquad \qquad \bigcirc \ \ \, \frac{13}{2}x^{\frac{9}{2}} \qquad \qquad \bigcirc \ \ \, \frac{11}{2}x^{\frac{11}{2}}$$

Find the derivative f'(x) of $f(x) = x^{\frac{7}{3}} - x^{-\frac{13}{6}}$.

$$\bigcirc \quad \frac{7}{3}x^{-\frac{4}{3}} + \frac{13}{6}x^{-\frac{7}{6}}$$

$$\bigcirc \quad \frac{7}{3}x^{-\frac{4}{3}} + \frac{13}{6}x^{-\frac{7}{6}} \qquad \bigcirc \quad \frac{7}{3}x^{\frac{4}{3}} - \frac{13}{6}x^{-\frac{19}{6}} \qquad \bigcirc \quad \frac{7}{3}x^{\frac{7}{3}} + \frac{13}{6}x^{-\frac{7}{6}} \qquad \bigcirc \quad \frac{4}{3}x^{\frac{7}{3}} + \frac{13}{6}x^{\frac{7}{6}} \qquad \bigcirc \quad \frac{4}{3}x^{\frac{7}{3}} + \frac{13}{6}x^{\frac{7}{3}} + \frac{13}{6}x^{\frac{7}{3}} + \frac{13}{6}x^{\frac{7}{3}} + \frac{13}{6}x^{\frac{7}{3}} + \frac{13}{6}x^{\frac{7}{3}} + \frac$$

$$0 \quad \frac{4}{3}x^{\frac{7}{3}} + \frac{13}{6}x^{-\frac{7}{6}}$$

Find the derivative f'(x) of $f(x) = (x^2 + 3)(4x + 4)$. 5

$$\bigcap$$
 8x

$$12x^2 + 8x + 12$$

$$\bigcap 12x^2 + 8x$$

6 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{9}{2x^2 + 5x + 4}$.

$$\bigcirc \quad \frac{36x+45}{(2x^2+5x+4)^2} \qquad \qquad \blacksquare \quad -\frac{36x+45}{(2x^2+5x+4)^2} \qquad \qquad \bigcirc \quad -\frac{36x+45}{2x^2+5x+4} \qquad \qquad \bigcirc \quad \frac{36x+45}{2x^2+5x+4}$$

$$-\frac{36x+45}{2x^2+5x+4}$$

$$\bigcirc \quad \frac{36x + 45}{2x^2 + 5x + 4}$$

7 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{8x+11}{11x+2}$.

$$\bigcirc \quad \frac{8}{(11x+2)^2} \qquad \bigcirc \quad \frac{-103}{11x+2} \qquad \bigcirc \quad \frac{-105}{11x+2} \qquad \qquad \boxed{ \qquad } \quad \frac{-105}{(11x+2)^2} \qquad \bigcirc \quad \frac{8}{11x+2}$$

$$\frac{-103}{11x+5}$$

$$\frac{-105}{11x+2}$$

$$\frac{-105}{(11x+2)}$$

$$\bigcirc \quad \frac{8}{11x+2}$$

8 Find the derivative
$$f'(x)$$
 of $f(x) = (9x + 8)^{12}$.

$$0 108(9x+8)^{12}$$

$$0 12(9x+8)^{13}$$

$$0 12(9x+8)^{12}$$

$$\bigcirc 108(9x+8)^{12} \qquad \bigcirc 12(9x+8)^{11} \qquad \bigcirc 12(9x+8)^{12} \qquad \blacksquare 108(9x+8)^{11}$$





 $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$

 $\bigcirc 6 \bigcirc 6$

 $\bigcirc 7 \bigcirc 7$

 $\bigcirc 8 \bigcirc 8 \bigcirc 8 \bigcirc 8 \bigcirc 8 \bigcirc 8 \bigcirc 8$

 $\bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9$

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First name and last name

1 Find the derivative
$$f'(x)$$
 of $f(x) = 7x^4 + 7x^3 + 7x^2 + 2x + 7$.

$$\bigcirc 28x^3 + 21x^2 + 14x + 9 \qquad \bigcirc 28x^3 + 21x^2 + 14x + 2 \qquad \bigcirc 28x^3 + 21x^2 + 16x + 2 \\ \bigcirc 7x^4 + 14x^3 + 7x^2 + 2x \qquad \bigcirc 7x^4 + 7x^3 + 7x^2 + 2x + 7$$

Find the derivative f'(x) of $f(x) = 3 - \frac{2}{x} + \frac{5}{x^2}$.

- $\bigcirc \quad 3 \frac{2}{x} \qquad \bigcirc \quad \frac{2}{x^2} \frac{5}{x^3} \qquad \bigcirc \quad -\frac{2}{x^2} + \frac{10}{x^3} \qquad \bigcirc \quad -\frac{2}{x^2} + \frac{5}{x^3} \qquad \qquad \blacksquare \quad \frac{2}{x^2} \frac{10}{x^3}$

3 Find the derivative
$$f'(x)$$
 of $f(x) = x^{\frac{11}{2}}$.

- $\bigcirc \ \ \frac{9}{2}x^{\frac{9}{2}} \qquad \bigcirc \ \ \frac{9}{2}x^{\frac{9}{2}} \qquad \bigcirc \ \ \frac{13}{2}x^{\frac{9}{2}} \qquad \qquad \blacksquare \ \ \frac{11}{2}x^{\frac{9}{2}} \qquad \bigcirc \ \ \frac{11}{2}x^{\frac{11}{2}}$

4 Find the derivative
$$f'(x)$$
 of $f(x) = x^{\frac{11}{2}} - x^{-\frac{7}{4}}$.

$$0 \quad \frac{9}{2}x^{\frac{9}{2}} - \frac{7}{4}x^{\frac{3}{4}}$$

$$\bigcirc \frac{9}{2}x^{\frac{11}{2}} + \frac{7}{4}x^{-\frac{3}{4}} \\
\frac{11}{2}x^{\frac{9}{2}} + \frac{7}{4}x^{-\frac{1}{4}}$$

$$\bigcirc \quad \frac{9}{2}x^{\frac{9}{2}} - \frac{7}{4}x^{\frac{3}{4}} \qquad \bigcirc \quad \frac{9}{2}x^{\frac{11}{2}} + \frac{7}{4}x^{-\frac{3}{4}} \qquad \bigcirc \quad \frac{11}{2}x^{\frac{9}{2}} - \frac{7}{4}x^{-\frac{11}{4}} \qquad \bigcirc \quad \frac{11}{2}x^{-\frac{9}{2}} + \frac{7}{4}x^{-\frac{3}{4}} \qquad \bigcirc \quad \frac{11}{2}x^{\frac{11}{2}} + \frac{7}{4}x^{-\frac{3}{4}}$$

5 Find the derivative
$$f'(x)$$
 of $f(x) = (x^2 + 4)(1x + 2)$.

- $\bigcirc 2x$ $\bigcirc 3x^2 + 4x + 5$ $\bigcirc 3x^2 + 4x$ $\bigcirc 3x^2 + 4x + 4$

6 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{7}{5x^2+7x+9}$

- $\bigcirc \quad \frac{70x+49}{5x^2+7x+9} \qquad \quad \bigcirc \quad -\frac{70x+49}{5x^2+7x+9} \qquad \qquad \blacksquare \quad -\frac{70x+49}{(5x^2+7x+9)^2} \qquad \quad \bigcirc \quad \frac{70x+49}{(5x^2+7x+9)^2}$

7 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{8x+7}{5x+2}$.

- $\bigcirc \quad \frac{8}{5x+2} \qquad \bigcirc \quad \frac{-19}{5x+2} \qquad \bigcirc \quad \frac{-17}{5x+2} \qquad \qquad \blacksquare \quad \frac{-19}{(5x+2)^2} \qquad \bigcirc \quad \frac{8}{(5x+2)^2}$

8 Find the derivative
$$f'(x)$$
 of $f(x) = (5x+3)^7$.

$\bigcirc 0$	\bigcap	\bigcap	\bigcap	\bigcap	\bigcap	\bigcap	\bigcap
$\bigcup U$	$\bigcup 0$	$\bigcup U$	$\bigcup U$	$\bigcup U$	$\bigcup U$	\bigcirc 0	$\bigcup U$

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$$\bigcirc 3 \bigcirc 3$$

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$$\bigcirc 6$$
 $\bigcirc 6$ $\bigcirc 6$ $\bigcirc 6$ $\bigcirc 6$ $\bigcirc 6$ $\bigcirc 6$

$$\bigcirc$$
7 \bigcirc 7 \bigcirc 7 \bigcirc 7 \bigcirc 7 \bigcirc 7 \bigcirc 7

$$\bigcirc 8 \bigcirc 8$$

$$\bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9$$

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First name and last name

Find the derivative f'(x) of $f(x) = 5x^4 + 3x^3 + 7x^2 + 4x + 3$.

$$\bigcirc 20x^3 + 9x^2 + 14x + 7 \qquad \bigcirc 20x^3 + 9x^2 + 16x + 4 \qquad \bigcirc 5x^4 + 6x^3 + 7x^2 + 4x + 3 \qquad \bullet 20x^3 + 9x^2 + 14x + 4$$

Find the derivative f'(x) of $f(x) = 5 - \frac{3}{x} + \frac{2}{x^2}$. $\mathbf{2}$

$$-\frac{3}{x^2} + \frac{4}{x^3}$$

$$\bigcirc \quad \frac{3}{x^2} - \frac{2}{x^3}$$

$$\int 5-\frac{3}{x}$$

3 Find the derivative
$$f'(x)$$
 of $f(x) = x^{\frac{11}{3}}$.

$$\bigcirc \quad \frac{9}{3}x^{\frac{8}{3}} \qquad \bigcirc \quad \frac{13}{3}x^{\frac{8}{3}} \qquad \bigcirc \quad \frac{8}{3}x^{\frac{8}{3}} \qquad \bigcirc \quad \frac{11}{3}x^{\frac{11}{3}} \qquad \qquad \blacksquare \quad \frac{11}{3}x^{\frac{8}{3}}$$

$$\int \frac{13}{3}x^{\frac{8}{3}}$$

$$\bigcirc \quad \frac{8}{3}x^{\frac{8}{3}}$$

$$\int \frac{11}{3} x^{\frac{11}{3}}$$

$$\frac{11}{3}x^{\frac{8}{3}}$$

Find the derivative f'(x) of $f(x) = x^{\frac{11}{3}} - x^{-\frac{11}{5}}$. 4

$$\bigcirc \frac{11}{3}x^{\frac{8}{3}} - \frac{11}{5}x^{-\frac{16}{5}}$$

$$\bigcirc \frac{8}{3}x^{\frac{8}{3}} - \frac{11}{5}x^{\frac{6}{5}}$$

Find the derivative f'(x) of $f(x) = (x^2 + 5)(3x + 7)$. 5

$$\bigcap$$
 $9x^2 \perp 14x$

$$\bigcap$$
 6x

$$\bigcirc 9x^2 + 14x$$
 $\bigcirc 6x$ $\bigcirc 9x^2 + 14x + 16$ $\bigcirc 9x^2 + 14x + 15$

$$9x^2 + 14x + 19$$

Find the derivative f'(x) of $f(x) = \frac{3}{2x^2+3x+2}$.

$$-\frac{12x+9}{2x^2+3x+2}$$

$$\frac{12x+9}{(2x^2+3x+2)^2}$$

$$\bigcirc \quad -\frac{12x+9}{2x^2+3x+2} \qquad \bigcirc \quad \frac{12x+9}{(2x^2+3x+2)^2} \qquad \bullet \quad -\frac{12x+9}{(2x^2+3x+2)^2} \qquad \bigcirc \quad \frac{12x+9}{2x^2+3x+2}$$

$$\int \frac{12x+9}{2x^2+3x+2}$$

7 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{4x+7}{11x+4}$.

$$\bigcirc \quad \frac{4}{(11x+4)^2}$$

$$\bigcirc \quad \frac{4}{(11x+4)^2} \qquad \qquad \bullet \quad \frac{-61}{(11x+4)^2} \qquad \bigcirc \quad \frac{4}{11x+4} \qquad \bigcirc \quad \frac{-57}{11x+4} \qquad \bigcirc \quad \frac{-61}{11x+4}$$

$$\bigcirc \quad \frac{4}{11x+4}$$

$$\bigcirc \quad \frac{-57}{11x+4}$$

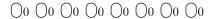
$$\bigcirc \quad \frac{-61}{11x+4}$$

8 Find the derivative
$$f'(x)$$
 of $f(x) = (6x + 6)^{11}$.

$$66(6x+6)^{10}$$

$$0 11(6x+6)^{11}$$

$$\bigcirc$$
 66(6x + 6)¹



$$\bigcirc 1$$
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$$\bigcirc 3 \bigcirc 3$$

$$\bigcirc 4 \bigcirc 4$$

$$\bigcirc 5$$
 $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$ $\bigcirc 5$

$$\bigcirc 6 \bigcirc 6$$

$$\bigcirc$$
7 \bigcirc 7

$$\bigcirc 8 \bigcirc 8 \bigcirc 8 \bigcirc 8 \bigcirc 8 \bigcirc 8 \bigcirc 8$$

$$\bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9 \bigcirc 9$$

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First name and last name

Find the derivative f'(x) of $f(x) = 7x^4 + 7x^3 + 2x^2 + 7x + 5$.

$$\bigcirc \quad 7x^4 + 7x^3 + 2x^2 + 7x + 5 \\ \bigcirc \quad \bigcirc \quad 7x^4 + 14x^3 + 2x^2 + 7x \\ \bigcirc \quad 28x^3 + 21x^2 + 6x + 7$$

$$\bigcirc \quad 28x^3 + 21x^2 + 4x + 12$$

Find the derivative f'(x) of $f(x) = 2 - \frac{5}{x} + \frac{5}{x^2}$.

$$\int \frac{5}{3} - \frac{5}{3}$$

$$-\frac{5}{x^2} + \frac{10}{x^3}$$

$$\frac{5}{x^2} - \frac{10}{x^3}$$

$$\bigcirc 2-\frac{5}{x}$$

$$\bigcirc \quad \frac{5}{x^2} - \frac{5}{x^3} \qquad \quad \bigcirc \quad -\frac{5}{x^2} + \frac{10}{x^3} \qquad \quad \blacksquare \quad \frac{5}{x^2} - \frac{10}{x^3} \qquad \quad \bigcirc \quad 2 - \frac{5}{x} \qquad \quad \bigcirc \quad -\frac{5}{x^2} + \frac{5}{x^3}$$

3 Find the derivative
$$f'(x)$$
 of $f(x) = x^{\frac{11}{3}}$.

$$\bigcirc \quad \frac{11}{3}x^{\frac{11}{3}} \qquad \qquad \bullet \quad \frac{11}{3}x^{\frac{8}{3}} \qquad \bigcirc \quad \frac{9}{3}x^{\frac{8}{3}} \qquad \bigcirc \quad \frac{13}{3}x^{\frac{8}{3}} \qquad \bigcirc \quad \frac{8}{3}x^{\frac{8}{3}}$$

$$\frac{11}{3}x$$

$$\bigcirc \frac{9}{3}x^{\frac{5}{2}}$$

$$\bigcirc \frac{13}{3}x$$

$$\bigcirc \quad \frac{8}{3}x^{\frac{8}{3}}$$

Find the derivative f'(x) of $f(x) = x^{\frac{11}{2}} - x^{-\frac{7}{6}}$.

$$0 \quad \frac{9}{2}x^{\frac{9}{2}} - \frac{7}{6}x^{\frac{1}{6}}$$

Find the derivative f'(x) of $f(x) = (x^2 + 3)(5x + 5)$. 5

$$15r^2 + 10r + 15$$

$$\bigcap$$
 10x

$$0 15x^2 + 10x$$

Find the derivative f'(x) of $f(x) = \frac{5}{9x^2+7x+3}$.

$$-\frac{90x+35}{(9x^2+7x+3)^2}$$

$$\frac{90x+35}{9x^2+7x+5}$$

$$-\frac{90x+35}{(9x^2+7x+3)^2} \qquad \bigcirc \quad \frac{90x+35}{9x^2+7x+3} \qquad \bigcirc \quad \frac{90x+35}{(9x^2+7x+3)^2} \qquad \bigcirc \quad -\frac{90x+35}{9x^2+7x+3}$$

$$-\frac{90x+35}{9x^2+7x+3}$$

7 Find the derivative
$$f'(x)$$
 of $f(x) = \frac{8x+11}{5x+8}$.

$$\bigcirc \quad \frac{8}{(5x+8)^2} \qquad \quad \bigcirc \quad \frac{17}{5x+8} \qquad \quad \bigcirc \quad \frac{9}{5x+8} \qquad \quad \bigcirc \quad \frac{8}{5x+8}$$

$$\bigcirc \quad \frac{17}{5x+8}$$

$$\bigcirc \quad \frac{9}{5x+8}$$

$$\frac{8}{5x+8}$$

$$\frac{9}{(5x+8)}$$

8 Find the derivative
$$f'(x)$$
 of $f(x) = (3x + 2)^{11}$.

$$33(3x+2)^{10}$$

$$11(3x+2)^{11}$$

$$\bullet$$
 33(3x + 2)¹⁰ \bigcirc 11(3x + 2)¹¹ \bigcirc 11(3x + 2)¹⁰ \bigcirc 33(3x + 2)¹¹

$$\bigcirc$$
 33(3x + 2)¹³