

Name: \_\_\_\_\_

**ANSWER**

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

**QUESTION**

Differentiate the  
function  
 $f(x) = 8x^{\frac{2}{3}}$

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**ANSWER**

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

**QUESTION**

Differentiate the  
function  
 $f(x) = \frac{2}{x^{\frac{3}{2}}}$

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**ANSWER**

$$\frac{16}{3x^{\frac{1}{3}}}$$

**QUESTION**

Differentiate the  
function  
 $y = \frac{9}{x}$

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**ANSWER**

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

**QUESTION**

Differentiate the  
function  
 $y = 7x$

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ANSWER

$$-\frac{25}{x^6}$$

QUESTION

Differentiate the  
function

$$y = 2x^{\frac{3}{2}}$$

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ANSWER

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

QUESTION

Differentiate the  
function

$$y = 2x^8$$

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ANSWER

$$7$$

QUESTION

Differentiate the  
function

$$y = \frac{5}{x^2}$$

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ANSWER

$$16x^7$$

QUESTION

Differentiate the  
function

$$y = \frac{5}{x^5}$$

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**- ANSWERS**

1)  $\frac{16}{3x^{\frac{1}{3}}}$

3)  $-\frac{9}{x^2}$

5)  $3x^{\frac{1}{2}}$

7)  $-\frac{10}{x^3}$

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

4) 7

6)  $16x^7$

8)  $-\frac{25}{x^6}$

**The Loop**

7,2,6,8,5,1,3,4