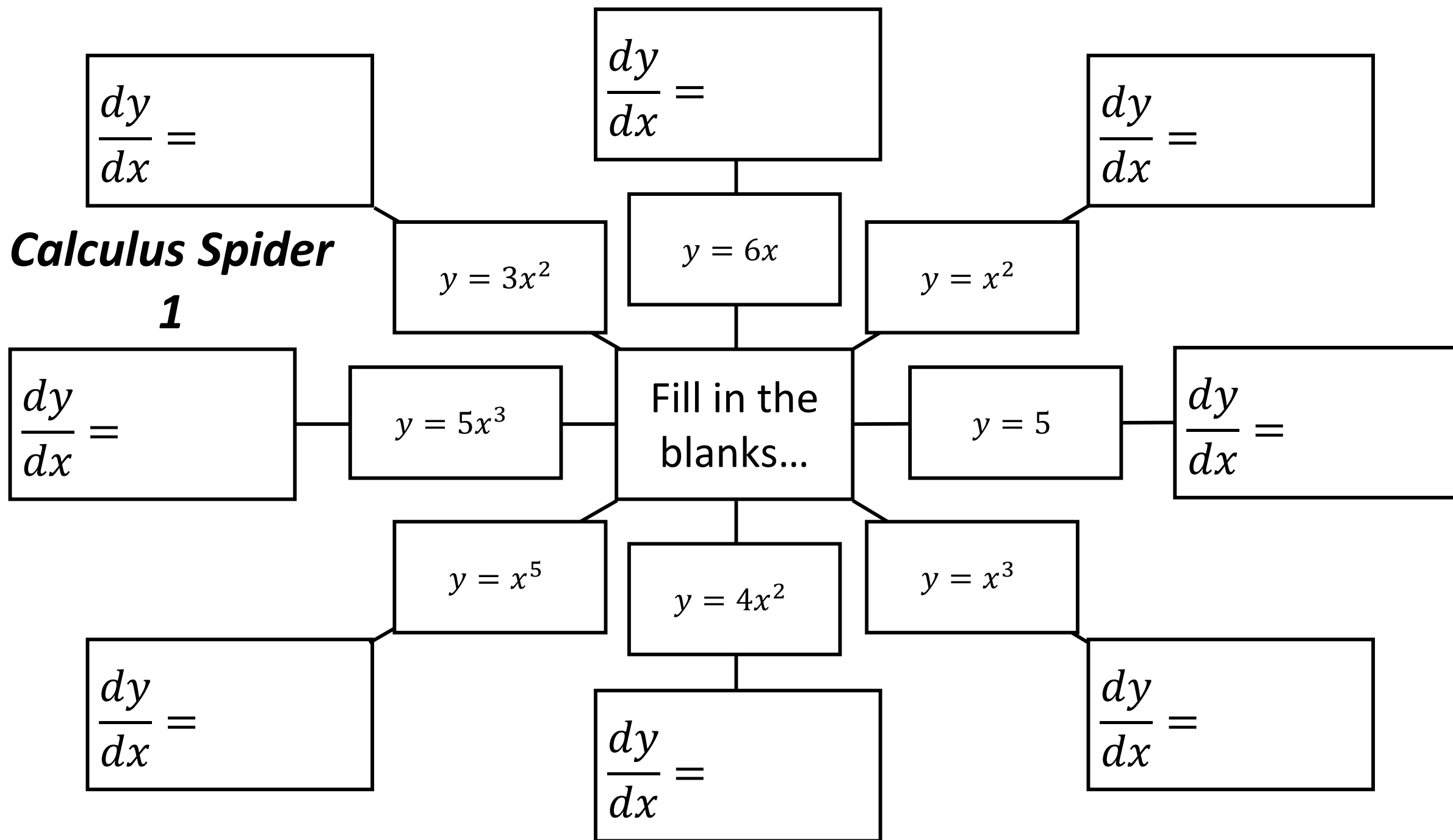
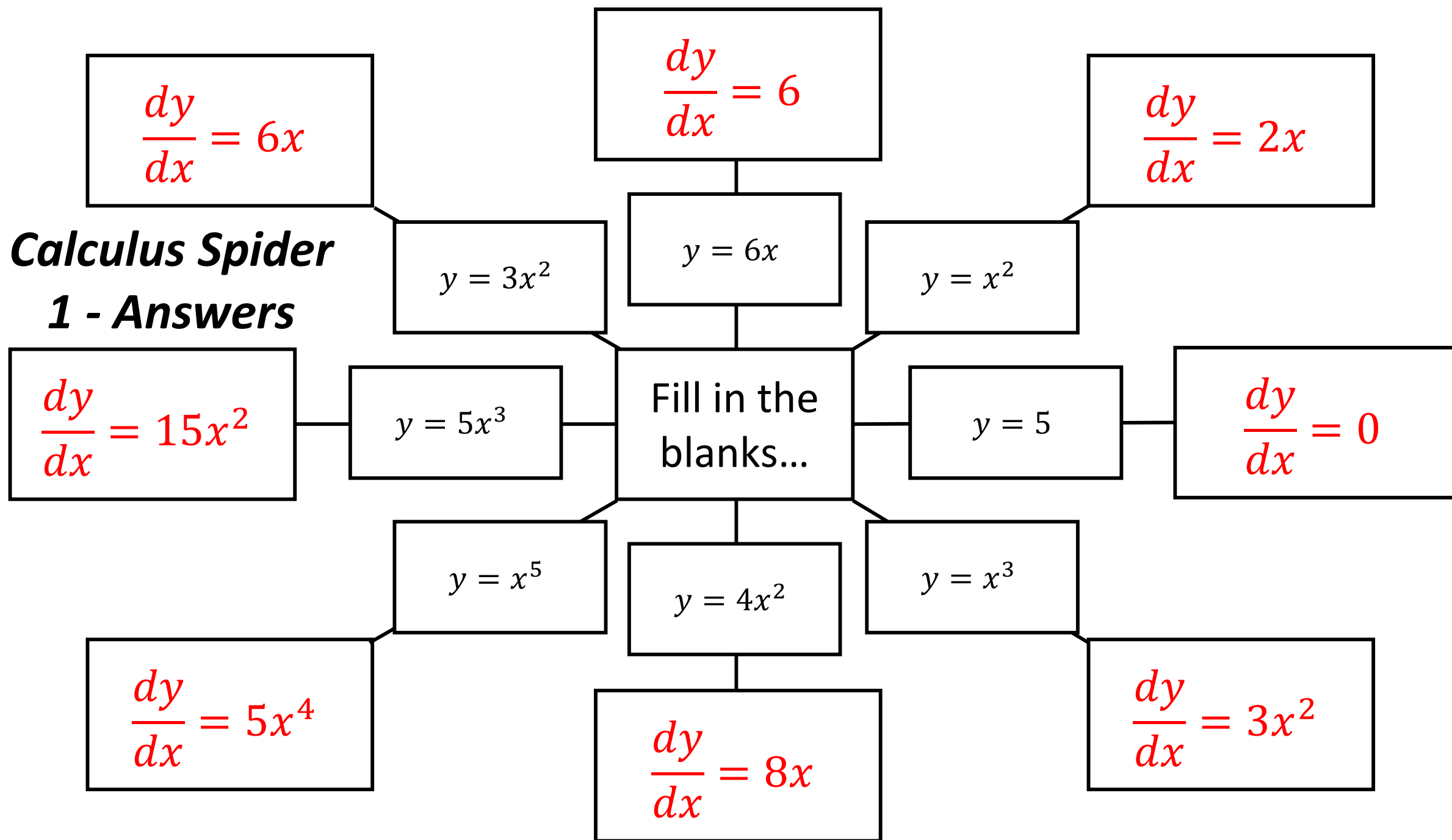


Calculus Spider
1



Calculus Spider
1 - Answers



Calculus Spider
2

$$\frac{dy}{dx} =$$

$$\frac{dy}{dx} =$$

$$\frac{dy}{dx} =$$

$$y = 5 - 3x^4$$

$$y = 7x^2$$

$$y = 4x^2 + 3$$

Fill in the
blanks...

$$y = 7x^3 - 2x^2$$

$$y = 3x - 2x^3$$

$$\frac{dy}{dx} =$$

$$y = x^5 - x^3$$

$$y = 5x + 2$$

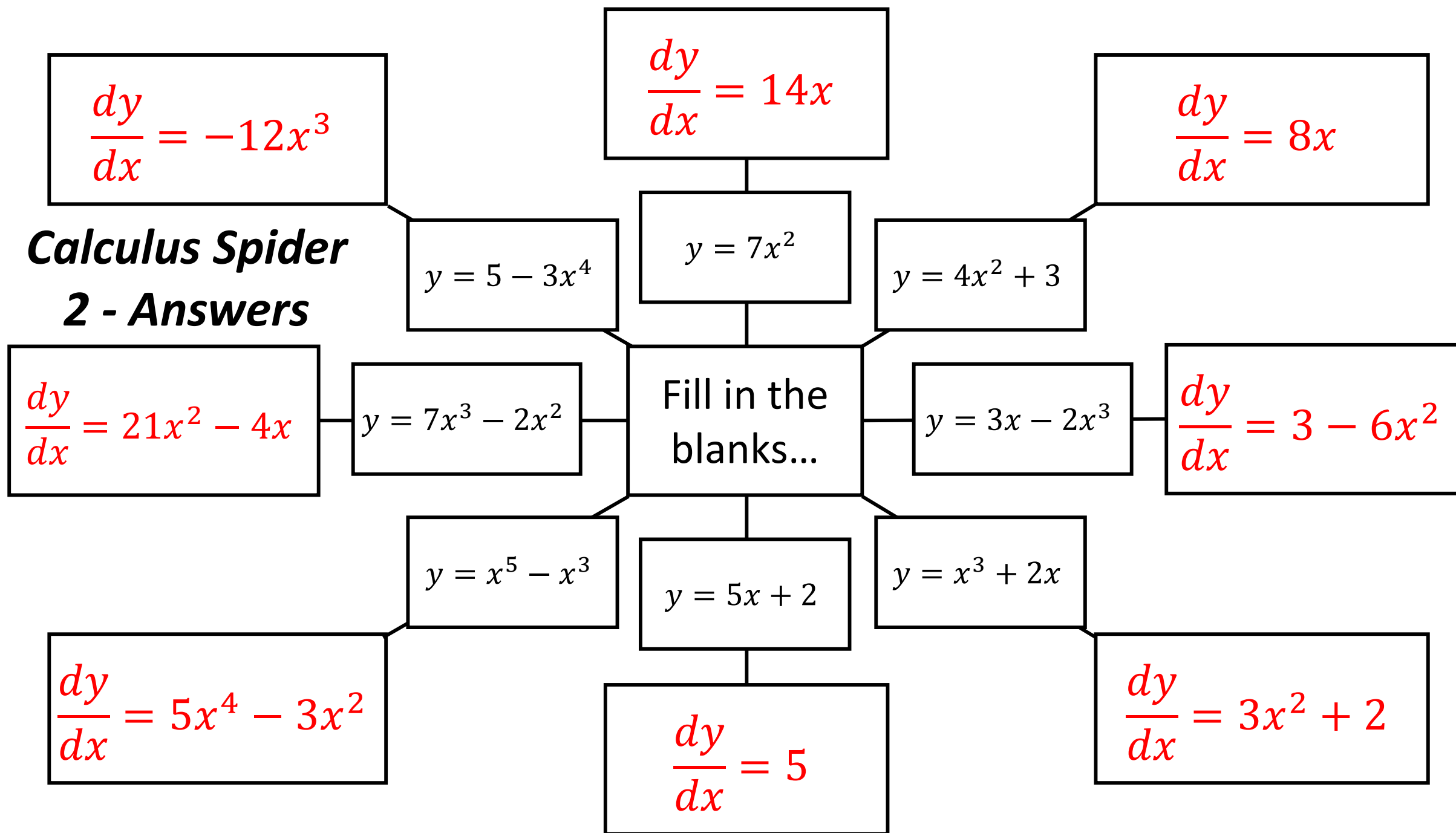
$$y = x^3 + 2x$$

$$\frac{dy}{dx} =$$

$$\frac{dy}{dx} =$$

$$\frac{dy}{dx} =$$

Calculus Spider
2 - Answers



$$y = 4x^2 - 2x$$

Co-ord:
 $(-1, 6)$

Gradient:

Gradient:

Co-ord:
 $x = 1$

$$y = 3x^2$$

Calculus Spider **3**

$$y = 2x^4 - 3$$

Co-ord:
 $(1, 3)$

Gradient:

Fill in the
blanks...

Gradient:

Co-ord:
 $x = 2$

$$y = x^2 + 3x$$

Gradient:

Gradient:

$$y = x^3$$

Co-ord:
 $x = 2$

*Find the gradient at
the points given.*

Co-ord:
 $x = -1$

$$y = 5x^2 + 4x$$

$$y = 4x^2 - 2x$$

Co-ord:
(-1,6)

Co-ord:
 $x = 1$

$$y = 3x^2$$

Calculus Spider 3 – Answers

Gradient:
-10

Gradient:
6

$$y = 2x^4 - 3$$

Co-ord:
(1,3)

Gradient:
8

Fill in the
blanks...

Gradient:
7

Co-ord:
 $x = 2$

$$y = x^2 + 3x$$

Gradient:
12

Gradient:
-6

$$y = x^3$$

Co-ord:
 $x = 2$

*Find the gradient at
the points given.*

Co-ord:
 $x = -1$

$$y = 5x^2 + 4x$$

$$y = x^3 - 2x^2 + x$$

Co-ord:
 $x =$

Calculus Spider

4

Gradient:
0

Gradient:
2

Co-ord:
 $x =$

$$y = x^2 - 3$$

Fill in the
blanks...

$$y = \frac{2}{3}x^3 - \frac{5}{2}x^2$$

Co-ord:
 $x =$

Gradient:
3

Gradient:
0

Co-ord:
 $x =$

$$y = x^2 + 4x$$

Gradient:
0

Gradient:
-1

$$y = \frac{1}{3}x^3 - 3x^2 + 5x$$

Co-ord:
 $x =$

*Find the point(s) at
the gradients given.*

Co-ord:
 $x =$

$$y = x^2 - 7x$$

$$y = x^3 - 2x^2 + x$$

Co-ord:
 $x = 1 \text{ \& } \frac{1}{3}$

Calculus Spider 4 – Answers

Gradient:
0

Gradient:
2

Co-ord:
 $x = 1$

$$y = x^2 - 3$$

$$y = \frac{2}{3}x^3 - \frac{5}{2}x^2$$

Co-ord:
 $x = -\frac{1}{2} \text{ \& } 3$

Gradient:
3

Fill in the
blanks...

Gradient:
0

Co-ord:
 $x = -2$

$$y = x^2 + 4x$$

Gradient:
0

Gradient:
-1

$$y = \frac{1}{3}x^3 - 3x^2 + 5x$$

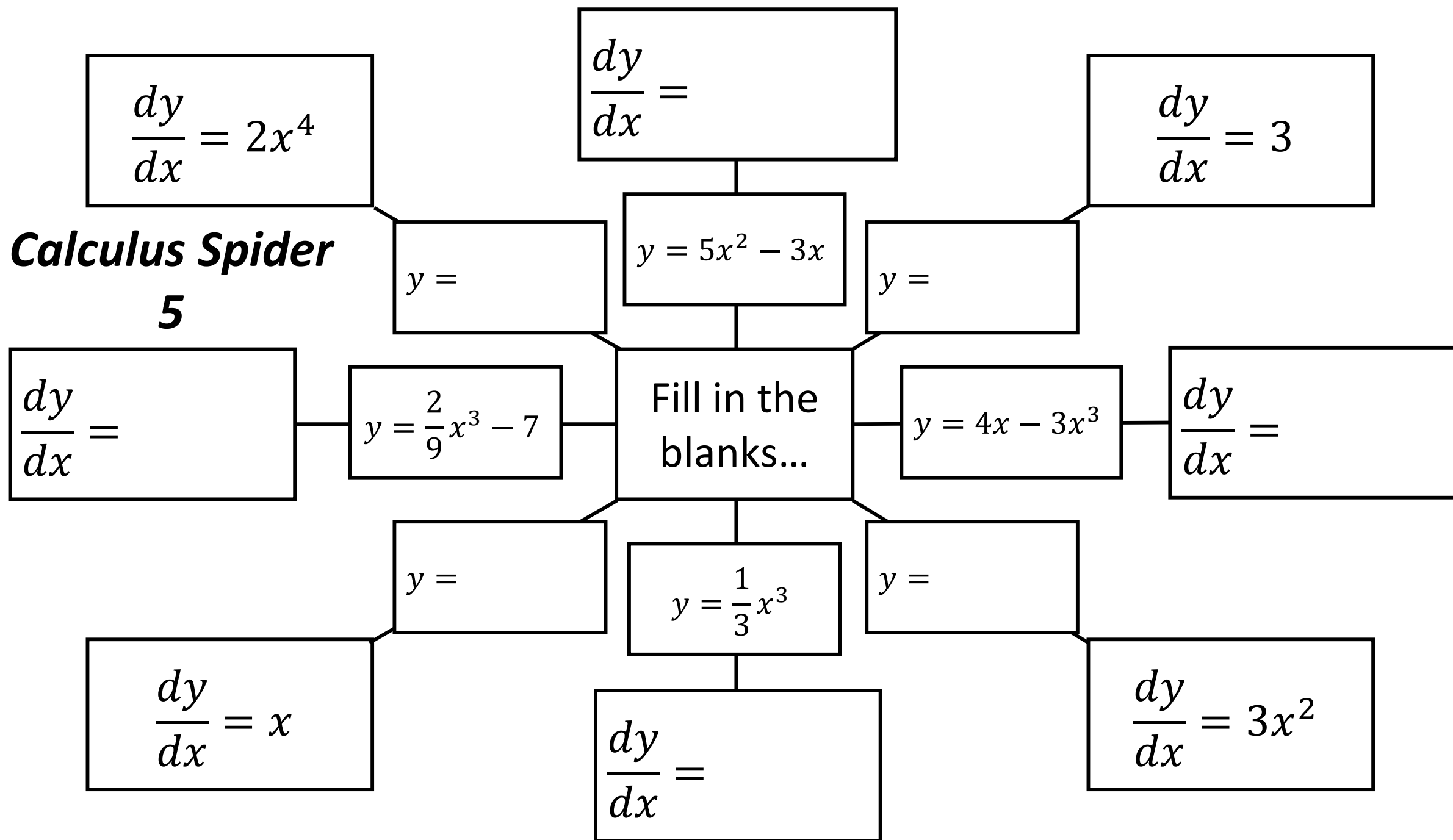
Co-ord:
 $x = 1 \text{ \& } 5$

*Find the point(s) at
the gradients given.*

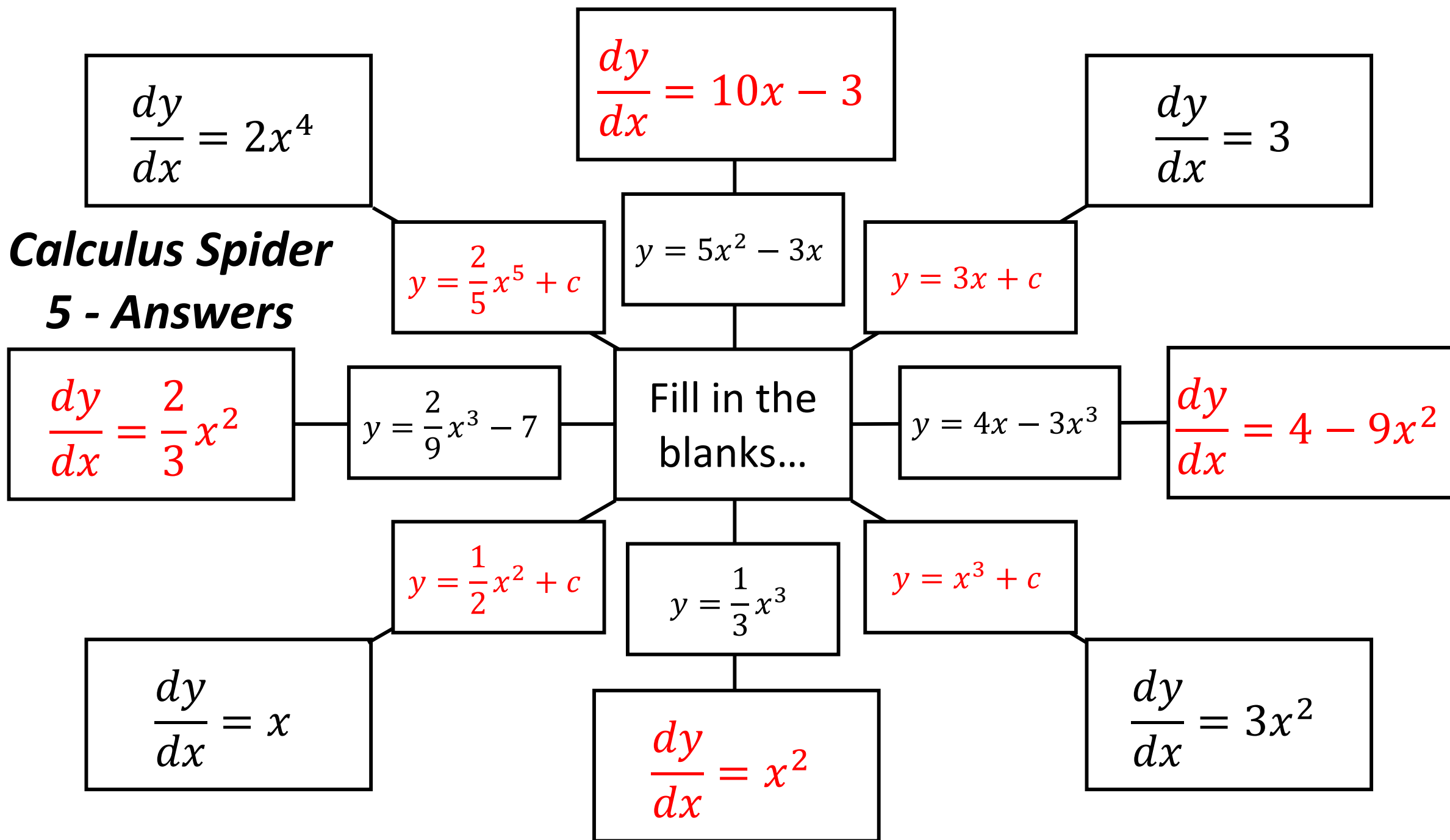
Co-ord:
 $x = 3$

$$y = x^2 - 7x$$

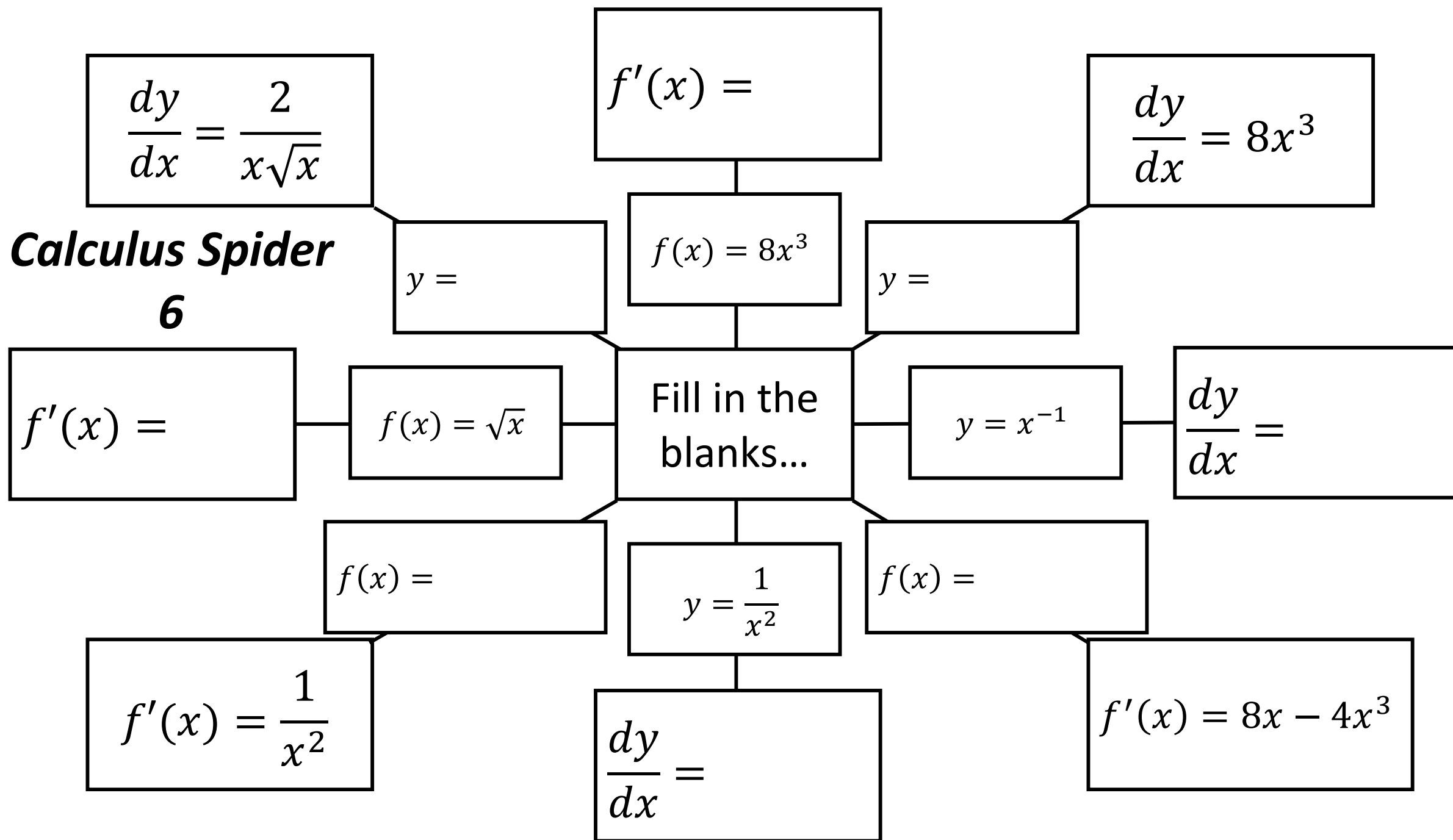
Calculus Spider
5



Calculus Spider
5 - Answers



Calculus Spider
6



Calculus Spider
6 - Answers

