Directions: Begin in cell #1. Take the derivative. Search for your answer. Continue in this manner until you complete the circuit. Additional paper may be necessary! No technology is needed!

Answer:
$$\frac{10x + 3x^2y^2}{-2yx^3 - 9y^2}$$
#_____1 : $-2y^2 + 3 = x^3$

Answer:
$$\frac{2x^2}{-2y^2 - 1}$$

#____: $-x^2y^2 - 3y^3 + 2 = 5x^3$

Answer:
$$-\frac{3x^2}{4y}$$

#_____: $3y^3 + 2 = 2x$

Answer:
$$\frac{-3x^2 - 6xy - 5y}{3x^2 + 5x}$$
#_____:
$$-2xy^2 - 3x^2y^3 + 3 = 4x^3$$

Answer:
$$\frac{5x + 3xy^{2}}{-3yx^{2} - 3y^{2}}$$
#_____:
$$4x^{2} + 4xy = -5x^{3}y + 4$$

Answer:
$$\frac{5x + 4xy^{3}}{-6y^{2}x^{2} - y}$$
#_____:
$$4x = -5y^{2} - x^{2}y + 4$$

Answer:
$$\frac{2}{9y^2}$$
 #_____: $-2y^3 - 3y + 4 = 2x^3$

Answer:
$$\frac{12x^2 + 2y^2 + 6y^3x}{-4xy - 9x^2y^2}$$
#_____:
$$-3x^2y^2 - 2y^3 + 5 = 5x^2$$

Answer:
$$\frac{15x^2 + 2xy^2}{-2yx^2 - 9y^2}$$
#______: $x^3 + 3x^2y + 5xy = 5$

Answer:
$$\frac{10x + 5y + 3y^2}{-5x - 6xy}$$
#____:
$$-4x^2y^3 + 2 = 5x^2 + y^2$$

Answer:
$$\frac{-15x^2y - 8x - 4y}{4x + 5x^3}$$
#_____:
$$-5xy - 3xy^2 + 5 = 5x^2$$