Integrals — Power rule

Name: _____ Date: _____

Raise each power by one and divide by the new power. Don't forget + C.

1. $\int (-2x + 2)\,dx$

$= -\frac{2x^2}{2} + 2x + C$

$= -x^2 + 2x + C$

2. $\int (-6x + 2)\,dx$

3. $\int (6x - 3)\,dx$

4. $\int (4x)\,dx$

5. $\int (2x)\,dx$

6. $\int (-2x + 1)\,dx$

Integrals · Power rule — Answer key

1. $\int(-2x + 2)\,dx = -x^2 + 2x + C$

2. $\int(-6x + 2)\,dx = -3x^2 + 2x + C$

3. $\int(6x - 3)\,dx = 3x^2 - 3x + C$

4. $\int(4x)\,dx = 2x^2 + C$

5. $\int(2x)\,dx = x^2 + C$

6. $\int(-2x + 1)\,dx = -x^2 + x + C$