A) Express the following in product form.

1) \((6n - 2)!\) = 

2) \((8n)!\) = 

3) \((4n + 1)!\) = 

4) \((7 + 2n)!\) = 

5) \((-5 + n)!\) = 

B) Express the following in factorial form.

1) \(3n.(3n - 1).(3n - 2)...2.1\) = 

2) \((8 + n).(7 + n).(6 + n)...2.1\) = 

3) \((-3 + 9n).(-4 + 9n).(-5 + 9n)...2.1\) = 

4) \((5n + 1).5n.(5n - 1)...2.1\) = 

5) \((7n - 4).(7n - 5).(7n - 6)...2.1\) = 

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Factorial & Product Form

A) Express the following in product form.

1) \((6n - 2)!\) = \((6n - 2)(6n - 3)(6n - 4)...2.1\)

2) \((8n)!\) = \(8n(8n - 1)(8n - 2)...2.1\)

3) \((4n + 1)!\) = \(4n(4n - 1)(4n - 2)...2.1\)

4) \((7 + 2n)!\) = \((7 + 2n)(6 + 2n)(5 + 2n)...2.1\)

5) \((-5 + n)!\) = \((-5 + n)(-6 + n)(-7 + n)...2.1\)

B) Express the following in factorial form.

1) \(3n(3n - 1)(3n - 2)...2.1\) = \(3n!\)

2) \((8 + n)(7 + n)(6 + n)...2.1\) = \((8 + n)!\)

3) \((-3 + 9n)(-4 + 9n)(-5 + 9n)...2.1\) = \((-3 + 9n)!\)

4) \((5n + 1)5n(5n - 1)...2.1\) = \((5n + 1)!\)

5) \((7n - 4)(7n - 5)(7n - 6)...2.1\) = \((7n - 4)!\)