Factorial & Product Form

A) Express the following in product form.

1) \((8n + 6)!\) = ______________________

2) \((-7 + 5n)!\) = ______________________

3) \((9 + n)!\) = ______________________

4) \((2n)!\) = ______________________

5) \((3n – 2)!\) = ______________________

B) Express the following in factorial form.

1) \((6n – 1). (6n – 2). (6n – 3)...2.1\) = ______________________

2) \((9n + 4). (9n + 3). (9n + 2)...2.1\) = ______________________

3) \((2 + 7n). (1 + 7n). 7n...2.1\) = ______________________

4) \((-6 + 2n). (-7 + 2n). (-8 + 2n)...2.1\) = ______________________

5) \(4n. (4n – 1). (4n – 2)...2.1\) = ______________________
Factorial & Product Form

A) Express the following in product form.

1) \((8n + 6)! = \) (8n + 6)(8n + 5)(8n + 4)...2.1

2) \((-7 + 5n)! = \) (-7 + 5n)(-8 + 5n)(-9 + 5n)...2.1

3) \((9 + n)! = \) (9 + n)(8 + n)(7 + n)...2.1

4) \((2n)! = \) (2n)(2n – 1)(2n – 2)...2.1

5) \((3n – 2)! = \) (3n – 2)(3n – 3)(3n – 4)...2.1

B) Express the following in product form.

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

2) \((9n + 4).(9n + 3).(9n + 2)...2.1 = \) (9n + 4)!

3) \((2 + 7n).(1 + 7n).7n...2.1 = \) (2 + 7n)!

4) \((-6 + 2n).(-7 + 2n).(-8 + 2n)...2.1 = \) (-6 + 2n)!

5) \(4n.(4n – 1).(4n – 2)...2.1 = \) (4n)!

Answer key

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