Factorial & Product Form

A) Express the following in product form.

1) \((8 + 3n)!\) = __________________________

2) \((6n – 4)!\) = __________________________

3) \((7n)!\) = __________________________

4) \((-3 + 4n)!\) = __________________________

5) \((9n + 6)!\) = __________________________

B) Express the following in factorial form.

1) \((8n + 9).(8n + 8).(8n + 7)...2.1\) = __________________________

2) \((-2 + 5n).(-3 + 5n).(-4 + 5n)...2.1\) = __________________________

3) \((n – 1).(n – 2).(n – 3)...2.1\) = __________________________

4) \(9n.(9n – 1).(9n – 2)...2.1\) = __________________________

5) \((5 + 2n).(4 + 2n).(3 + 2n)...2.1\) = __________________________
Factorial & Product Form

A) Express the following in product form.

1) \((8 + 3n)! = (8 + 3n)(7 + 3n)(6 + 3n)...2.1\)

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

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

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

5) \((9n + 6)! = (9n + 6)(9n + 5)(9n + 4)...2.1\)

B) Express the following in factorial form.

1) \((8n + 9)(8n + 8)(8n + 7)...2.1 = (8n + 9)!\)

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

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

4) \(9n(9n – 1)(9n – 2)...2.1 = (9n)!\)

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