

Name : _____

Factorial & Product Form

L2S4

A) Express the following in product form.

1) $(-9 + 2n)!$ = _____

2) $(n + 1)!$ = _____

3) $(5n - 7)!$ = _____

4) $(3n + 5)!$ = _____

5) $(6n)!$ = _____

B) Express the

1) $(-7 + 9n) \cdot (-8)$ = _____

2) $(4n + 6) \cdot (4n - 6)$ = _____

3) $n \cdot (n - 1) \cdot (n - 2) \dots 2 \cdot 1$ = _____

4) $(3 + 7n) \cdot (2 + 7n) \cdot (1 + 7n) \dots 2 \cdot 1$ = _____

5) $(8n - 2) \cdot (8n - 3) \cdot (8n - 4) \dots 2 \cdot 1$ = _____

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Answer key

Factorial & Product Form

L2S4

A) Express the following in product form.

1) $(-9 + 2n)! = \underline{\hspace{10em} (-9 + 2n).(-10 + 2n).(-11 + 2n)...2.1 \hspace{10em}}$

2) $(n + 1)! = \underline{\hspace{10em} (n + 1).n.(n - 1)...2.1 \hspace{10em}}$

3) $(5n - 7)! = \underline{\hspace{10em} \dots 2.1 \hspace{10em}}$

4) $(3n + 5)! = \underline{\hspace{10em} \dots 2.1 \hspace{10em}}$

5) $(6n)! = \underline{\hspace{10em} \dots 1 \hspace{10em}}$

B) Express the

1) $(-7 + 9n).(-8 + 9n) \dots (-1 + 9n)! = \underline{\hspace{10em} \dots + 9n)! \hspace{10em}}$

2) $(4n + 6).(4n + 5) \dots (4n + 6)! = \underline{\hspace{10em} \dots + 6)! \hspace{10em}}$

3) $n.(n - 1).(n - 2) \dots 2.1 = \underline{\hspace{10em} n! \hspace{10em}}$

4) $(3 + 7n).(2 + 7n).(1 + 7n) \dots 2.1 = \underline{\hspace{10em} (3 + 7n)! \hspace{10em}}$

5) $(8n - 2).(8n - 3).(8n - 4) \dots 2.1 = \underline{\hspace{10em} (8n - 2)! \hspace{10em}}$

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