

Name: [REDACTED]

Class: 603

Date: 5/15/14

Directions: Determine if these expressions are equivalent to our target expression. Use mathematical evidence to support your answer and write yes or no. **BONUS:** Write what property you can use to support your answer.

1. $2n + 2$

yes

4. $2(n + 1)$

NO

7. $3n + 5 - n - 3$

yes

2. $n + n + 1 + 1$

yes

5. $2(n + 2)$

NO

8. $n + 1 - n - 1$

NO

3. $n^2 + 2$

NO

6. $2(n + 2) - 2$

yes

9. $3(n + 1) - n - 1$

yes

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1. $2n + 2$

yes

4. $2(n + 1)$

yes
distributive

7. $(3n + 5) - n - 3$

no

2. $n + n + 1 + 1$

 $2n + 2$

5. $2(n + 2)$

no

8. $n + 1 - n - 1$

no

3. $n^2 + 2$

no

6. $2(n + 2) - 2$

no
distributive property
 $2n + 4 - 2$
 $2n + 2$

9. $3(n + 1) - n - 1$

 $3n + 3 - n - 1$

no

distributive

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1. $2n + 2$ yes ✓

4. $2(n + 1)$ yes ✓
 $2n + 2$

7. $(3n) + 5 - n - 3$
 $15n$

2. $n + n + 1 + 1$ yes ✓
 $n + n$ $2n$

5. $2(n + 2)$ no ✓
 $2n + 4$

8. $n + 1 - n - 1$ No
 $2n + 2$

3. $n^2 + 2$
no ✓
Can't multiply a variable

6. $2(n + 2) - 2$ yes
yes $4 - 2$

9. $3(n + 1) - n - 1$ yes
 $n - n + 1 - 1$
 0 0
yes

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1. $2n + 2$
Yes

4. $2(n + 1)$
 $2n + 2$
Yes

7. $3n + 5 - n - 3$
No
Yes

2. $n + n + 1 + 1$
 $2n + 2$
Yes

5. $2(n + 2)$
 $2n + 4$
No

8. $n + 1 - n - 1$
No

3. $n^2 + 2$
No

6. $2(n + 2) - 2$
 $2n + 4 - 2$
 $2n + 2$
Yes

9. $3(n + 1) - n - 1$
 $3n + 3 - n - 1$
 $2n + 2$
Yes

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s: 302

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1. $2n + 2$

yes

4. $2(n + 1)$

$$4 + 2 = 6 \checkmark$$
 yes

7. $3n + 5 - n - 3$

yes

2. $n + n + 1 + 1$

yes

5. $2(n + 2)$

No

8. $n + 1 - n - 1$

No

3. $n^2 + 2$

No

6. $2(n + 2) - 2$

yes

9. $3(n + 1) - n - 1$

yes

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Directions: Determine if these expressions are equivalent to our target expression. Use mathematical evidence to support your answer and write yes or no. **BONUS:** Write what property you can use to support your answer.

1. $2n + 2$

$$1 + 2 \times 2 = 4$$

$$2n + 2$$

2. $n + n + 1 + 1$

$$1 + 1 + 1 + 1 = 4$$

$$n + 2$$

3. $n^2 + 2$

$$1 + 2 = 3$$

$$n^2 + 2$$

4. $2(n + 1)$

$$1 + 1 = 2 \times 2 = 4$$

$$2n + 2$$

5. $2(n + 2)$

$$1 + 2 = 3 \times 2 = 6$$

$$2n + 4$$

6. $2(n + 2) - 2$

$$1 + 2 = 3 \times 2 = 6$$

$$2n + 2$$

$$2n + 4$$

$$-2$$

$$2n + 2$$

7. $3n + 5 - n - 3$

$$1 \times 3 = 3 + 5 = 8 - 4 = 4$$

$$3n + (5 - n) - 3$$

8. $n + 1 - n - 1$

$$1 + 1 - 1 - 1 = 0$$

$$-n + -1$$

9. $3(n + 1) - n - 1$

$$1 + 1 = 2 \times 3 = 6$$

$$3n + 2$$

$$3n + 3$$

$$-n + 2$$

$$-2 + 2 = 4$$

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Directions: Determine if these expressions are equivalent to our target expression. Use mathematical evidence to support your answer and write yes or no. **BONUS:** Write what property you can use to support your answer.

1. $2n + 2$

Yes b/c $2n+2$ is equivalent to $2n+2$.

4. $2(n + 1)$

Yes b/c if you use the distributive property you can get the same expression.

7. $(3n + 5) - n - 3$

Yes

2. $n + n + 1 + 1$

Yes b/c $2n+2$ can be expanded by adding the #1s and adding 2.

5. $2(n + 2)$

No b/c by using the distributive property you will see that if you plug in #1s that won't give you the correct answer.

8. $n + 1 - n - 1$

NO

3. $n^2 + 2$

No b/c if you multiply the # of the shape twice, and add 2, you will not get the correct answer.

6. $2(n + 2) - 2$

Yes
 $2+4-2=4$

9. $3(n + 1) - n - 1$

Yes

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2. $n + n + 1 + 1$

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5. $2(n + 2)$

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8. $n + 1 - n - 1$

NO

3. $n^2 + 2$

NO

6. $2(n + 2) - 2$

Yes

9. $3(n + 1) - n - 1$

Yes