Assessment

Mathematics: Lesson12



Simplify the power of i. Choose the correct answer.

 i^{35}

A. 1

B. *i*

C. –

D. -i

$$(6+\sqrt{-8})+(8-\sqrt{-72})$$
A. $14-4i\sqrt{5}$

A.
$$14-4i\sqrt{5}$$

B
$$14+4\sqrt{2}$$

C.
$$14 + 4\sqrt{5}$$

D.
$$14-4i\sqrt{2}$$

$$(8-3i) \div i$$

A.
$$3 + 8i$$

B.
$$3-8i$$

$$c^{-3-8i}$$

$$(9+7i)-(2+7i)+(9+2i)$$

A.
$$16+16i$$

B.
$$16 + 2i$$

$$\mathsf{C.} \quad -2-2i$$

D.
$$-2+2i$$

$$(4+8i)(9+5i)$$

A.
$$76 + 52i$$

B.
$$40i^2 - 92i - 4$$

C.
$$-4-94i$$

D.
$$-4 + 92i$$

$$2 \div (5-3i)$$

A.
$$\frac{5}{8} - \frac{3}{8}i$$

B.
$$\frac{5}{8} + \frac{3}{8}i$$

C.
$$\frac{5}{17} + \frac{3}{17}i$$

D.
$$\frac{5}{17} - \frac{3}{17}i$$

$$(3-5i)+(-4+7i)$$

A.
$$-1+2i$$

B.
$$1 + 2i$$

C.
$$7-12i$$

D.
$$-2+3i$$

$$(2+5i)(3-2i)$$

$$-4+11i$$

B.
$$16-19i$$

$$c - 10i$$

D.
$$16+11i$$

$$(2+5i)\div(3+i)$$

A.
$$\frac{2}{3} + 5i$$

B.
$$\frac{3}{10} + \frac{13}{10}i$$

C.
$$\frac{11}{10} + \frac{13}{10}i$$

D.
$$\frac{11}{8} + \frac{13}{8}i$$

$$(3-3i)\div(3+4i)$$

A.
$$-\frac{3}{25} - \frac{21}{25}i$$

B.
$$3-3i$$

C.
$$\frac{3}{7} - 3i$$

D.
$$\frac{3}{25} - \frac{21}{25}i$$