The expression  $\frac{(i+2)}{i}$  is equivalent to which of the following?

c. 
$$1-2i$$
  
d.  $i-2$ 

ExamView

$$i(i^5+7)-6$$

$$i(i^5 + 7) - 6 = ?$$
  
a.  $7i + 1$   
b.  $-6 + 7i$ 

c. 
$$1-7i$$
  
d.  $-7+7i$ 

ExamView

The expression  $\frac{(i+8)}{i}$  is equivalent to which of the following?

a. 
$$1+8i$$
  
b.  $i-8$ 

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ExamView

$$i(i^5 + 3) + 9 = ?$$
  
a.  $3i + 12$   
b.  $12 - 3i$ 

$$i(i^2 + 5) + 9 = i$$
  
a.  $3i + 12$ 

c. 
$$8+3i$$
  
d.  $9+3i$ 

Which of the following is equivalent to 6i(-7i+9)-2(1-2i) in the form a+bi? a. 44+50ib. 40+58ic. -40+50id. -52-46i

ExamView

Which of the following is equivalent to -7i(-2i+8) + 5(-7-4i) in the form

$$a+bi$$
?

$$a + bi$$
?  
a.  $21 - 36i$   
b.  $49 - 36i$ 

c. 
$$-49 - 76i$$
  
d.  $91 + 34i$ 

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ExamView

Which of the following is equivalent to  $i^{78}$ ?

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ExamView

Which of the following is equivalent to  $i^{98}$ ?

a. -ib. -1d.

Which of the following is the complex conjugate of -10-4i. a. -10+4i c. 10-4ib. 4+10i d. 10+4i

Which of the following is the complex conjugate of 14-11i. a. 14+11i c. -14+11ib. -14-11i d. 11-14i

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ExamView

Which of the following shows the solutions for  $x^4 - 16x^2 - 80 = 0$ ? a. x = -2i, 2i,  $2\sqrt{5}$ , or  $-2\sqrt{5}$ b. x = -2,  $2\sqrt{5}$ , or  $-2\sqrt{5}$ c. x = -2,  $2\sqrt{5i}$ , or  $-2\sqrt{5i}$ d. x = -2i, 2i,  $2\sqrt{5i}$ , or  $-2\sqrt{5i}$ 

ExamView

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Which of the following shows the solutions for  $x^4 - 19x^2 - 20 = 0$ ? a. x = -1, 1,  $2\sqrt{5}$ , or  $-2\sqrt{5}$ b. x = -i, i,  $2\sqrt{5}$ , or  $-2\sqrt{5}$ c. x = -i, i,  $2\sqrt{5i}$ , or  $-2\sqrt{5i}$ 

d. x = -1, 1,  $2\sqrt{5i}$ , or  $-2\sqrt{5i}$ 

3

The expression  $\frac{-7+2i}{-4+6i}$  is equivalent to which of the following?

a. 
$$\frac{-40 + 34i}{52}$$
  
b. 
$$\frac{40 - 34i}{52}$$

c. 
$$\frac{-40 - 34i}{52}$$
  
d.  $\frac{40 + 34i}{52}$ 

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ExamView 3

The expression (4+2i)(-1+5i)(2+4i) is equivalent to which of the following? a. -100-20i c. 100-20ib. -100+20i d. 100+20i

a. 
$$-100-20$$
  
b.  $-100+20$ 

d. 
$$100 + 20i$$

ExamView 2

The expression  $\frac{4+3i}{-4+8i}$  is equivalent to which of the following?

a. 
$$\frac{8+44i}{80}$$

c. 
$$\frac{-8 - 44i}{80}$$
  
d.  $\frac{-8 + 44i}{80}$ 

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d. 
$$\frac{-8+4}{80}$$

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ExamView

The expression (5-3i)(1+3i)(-4-4i) is equivalent to which of the following? a. -8-104i c. -8+104ib. 8-104i d. 8+104i

a. 
$$-8 - 104i$$

c. 
$$-8 + 104$$

The expression  $(7+8i)(9+7i^2)$  is equivalent to which of the following? a. 14+16i c. -14-16ib. 14-16i d. -14+16i

d. 
$$-14 + 16i$$

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ExamView

The expression  $\frac{65+25i}{50}$  is equivalent to which of the following?

a. 
$$\frac{-9+2}{5+5}$$

a. 
$$\frac{-9+4i}{5+5i}$$
  
b.  $\frac{9-4i}{5-5i}$ 

c. 
$$\frac{-9 - 4i}{-5 - 5i}$$
  
d.  $\frac{9 + 4i}{-5 + 5i}$ 

ExamView

The expression  $(6+9i)(3+6i^2)$  is equivalent to which of the following? a. 18-27i c. -18-27ib. 18+27i d. -18+27i

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ExamView

The expression  $\frac{37-50i}{73}$  is equivalent to which of the following?

a. 
$$\frac{7+2i}{3+8i}$$
  
b.  $\frac{-7-2i}{3-8i}$ 

c. 
$$\frac{7-2i}{-3-8i}$$
  
d.  $\frac{-7+2i}{-3+8i}$ 

The expression -26 - 104i is equivalent to which of the following? a. (-1+5i)(1+4i)(1+5i)b. (1+5i)(-1+4i)(1+5i)c. (1+5i)(-1+4i)(-1+5i)d. (-1+5i)(-1+4i)(-1+5i)

a. 
$$(-1+5i)(1+4i)(1+5i)$$

c. 
$$(1+5i)(1+4i)(-1+5i)$$

b. 
$$(1+5i)(-1+4i)(1+5i)$$

c. 
$$(1+5i)(1+4i)(-1+5i)$$
  
d.  $(-1+5i)(-1+4i)(-1+5i)$ 

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ExamView

The expression 75 + 90i is equivalent to which of the following?

a. 
$$(-5-6i)(-6+9i^2)$$

$$(5-6i)(6+9i^2)$$

b. 
$$(5-6i)(-6+9i^2)$$

$$(-5-6i)(6+9i^2)$$

ExamView

The expression 34+62i is equivalent to which of the following? a. (-4-2i)(1+3i)(-4+3i)b. (4-2i)(-1+3i)(-4+3i)c. (4-2i)(-1+3i)(4+3i)

a. 
$$(-4-2i)(1+3i)(-4+3i)$$

c. 
$$(4-2i)(1+3i)(4-3i)($$

b. 
$$(4-2i)(-1+3i)(-4+3i)$$

d. 
$$(-4-2i)(-1+3i)(4+3)$$

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ExamView

The expression  $(3-4i)(-2-9i^2)-5$  is equivalent to which of the following? a. 16+28i c. -16-28ib. 16-28i d. -16+28i

a. 
$$16 + 28i$$
  
b.  $16 - 28i$ 

The expression  $(8-7i)(8-3i^2)+3$  is equivalent to which of the following? a. 91+77ic. 91-77i

a. 
$$91 + 77i$$
  
b.  $-91 + 77i$ 

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ExamView

The expression (4-4i)(-4-2i)(-3-2i)-8 is equivalent to which of the following? a. 80+24ib. -80-24ic. 80-24i

b. 
$$-80-2$$

c. 
$$60 - 24i$$
  
d  $-80 + 24i$ 

ExamView 3

The expression (-5+5i)(1+4i)(-5-2i)+7 is equivalent to which of the

c. 
$$102 - 125i$$
  
d.  $102 + 125i$ 

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ExamView

The expression  $(1-4i)(-2-5i^2)-4-9i$  is equivalent to which of the following? a. 1-21ib. 1+21ic. -1+21id. -1-21i

a. 
$$1-21i$$

c. 
$$-1+2$$
  
d.  $-1-2$ 

The expression  $(-7-5i)(-4-2i^2)+1+9i$  is equivalent to which of the

b. 
$$-15-19i$$

c. 
$$15 + 19i$$
  
d.  $15 - 19i$ 

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ExamView

The expression (-1-5i)(1+2i)(3-5i)-7-9i is equivalent to which of the

$$-15-75i$$
  
 $15-75i$ 

d.

ExamView

following? The expression (-5-3i)(-4+2i)(1+5i)-2-7i is equivalent to which of the

a. 
$$14 - 125i$$
  
b.  $-14 + 125i$ 

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ExamView

The expression  $(7i-5i^2)(9i-6i^2)$  is equivalent to which of the following? a. -33+87i c. -33-87ib. 33+87i d. 33-87i

b. 
$$33 + 87i$$

The expression  $(6i-4i^2)(9i-6i^2)$  is equivalent to which of the following? a. 30+72i c. -30+72ib. -30-72i d. 30-72i

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ExamView

Given a = -9 + 4i and b = -9 - 4i, what is the product ab?

ExamView

Given a = 2 + 2i and b = 2 - 2i, what is the product ab?

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ExamView

Given  $a = \sqrt{1 + 7i}$  and  $b = \sqrt{1 - 7i}$ , what is the product ab?

9

Given  $a = \sqrt{6} + 9i$  and  $b = \sqrt{6} - 9i$ , what is the product ab?

ExamView

Given  $a = \sqrt{6} + 9i$  and  $b = \sqrt{6} - 9i$ , what is the product ab?

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