

Homework

Pg 118 # 15, 17, 19, 22, 24, 32

$$15. (3+2i) + (5-3i) = (3+5) + (2+3)i = 8+5i$$

$$17. (-5+3i) - (6-i) = (-5-6) + (3-1)i = -11+2i$$

$$19. (-4+4i) - (-6+9i) = (-4+6) + (4-9)i = 2-5i$$

$$22. (6-2i)(5) = \cancel{6(5)} = 30-10i$$

$$24. (2+3i)(4-i) = (2(4) - 3(1)) + (2(1) + 3(4))i$$
$$8-3 + 2i+12i$$
$$5+14i$$

$$32. \frac{2-3i}{4+3i} = \frac{2-3i}{4+3i} \cdot \frac{4-3i}{4-3i} = \frac{8-6i-12i+9i^2}{16+9} = \frac{8-6i-12i-9}{25}$$

$$\frac{-1-18i}{25}$$

$$\frac{-1}{25} - \frac{18i}{25}$$