Homework 27, Section 5.2: 1, 3, 6, 7, 15, 22, 26(a,b)

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Homework

1. A)

$6^{10} = 60,466,176$

1. B)

$5^{10} = 9,765,625$

3. A)

$26 \cdot 26 \cdot 26 \cdot 10 \cdot 10 \cdot 110 \cdot 10 = 175,760,000$

3. B)

$10 \cdot 10 \cdot 10 \cdot 10 \cdot (26 \cdot 26 \cdot 26 - 97)$

6. A)

$P(17,3) = 17 \cdot 16 \cdot 15 = 4080$

6. B)

$16 \cdot 16 \cdot 15 = 3840$

6. C)

$(1 + 1 + 15) + 15 \cdot 16 \cdot 16 = 3855$

6. D)

$1 \cdot 15 \cdot 16 = 240$

15. A)

$50 \cdot 50 \cdot 50 = 125,000$

15. B)

$50 \cdot 49 \cdot 48 = 117,600$

15. C)

$50 \cdot 50 = 2500$

15. D)

$3 \cdot (50 \cdot 49) = 7350$

22. A)

$2^7 = 128$

22. B)

$2^7 = 128$

22. C)

$2^4 = 16$

22. D)

$128 + 128 - 16 = 240$

26. A)

$15 \cdot 16 \cdot 17 \cdot 18 \cdot 19 = 1,395,360$

26. B)

$1 \cdot 2 \cdot 3 \cdot 4 \cdot 5 \cdot 6 = 720$