

MATH 1314

Chapter 6.1: Matrix Solutions To Linear Systems

$$2X + Y - Z = 2$$

$$X + 3Y + 2Z = 1$$

$$X + Y + Z = 2$$

$$3X + Y + 2Z = 31$$

$$X + Y + 2Z = 19$$

$$X + 3Y + 2Z = 25$$

$$X - Y + Z = -4$$

$$5X + Y - 2Z = 12$$

$$2X - 3Y + 4Z = -15$$

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Chapter 6.1: -4-

A rent-a truck company plans to spend \$5 million on 200 new vehicles. Each van will cost \$20,000, each small truck \$25,000, and each large truck \$35,000. If the company needs twice as many vans as small trucks, how many of each kind of vehicle should the company buy?