

8 The electric field – Part 2 —Answers

Answers

Work through these after you have tried the questions yourself.

2.1 the force felt per unit of charge at a point in space.

2.2 away from the positive charge.

2.3 $F = qE = 4.0 \times 10^{-6} \times 500 = 2.0 \times 10^{-3} \text{ N}$.

2.4 the field is stronger there.

2.5 opposite to the field direction (the field shows the force on a positive charge, so a negative charge is pushed the other way).