

$y + 5 = 0$

... are perpendicular and ...
 (a) If the tangents at P and Q are at right angles
 (b) If the chord joining P and Q subtends a right angle at the focus

Intersection of a Line and a parabola:

Let the parabola be $y^2 = 4ax$

and the given line be $y = mx + c$

Eliminating y from (1) and (2), then

$$(mx + c)^2 = 4ax \quad \text{or} \quad m^2x^2 + 2cx + c^2 - 4ax = 0$$

This equation is quadratic in x , gives two real solutions if the discriminant is non-negative. A line intersects a parabola in two points may be

$$(3) \quad D > 0, = 0, < 0$$

i.e.

$$4(m^2c^2 - 4amc) > 0, = 0, < 0$$

or

$$4a^2 - 4amc > 0, = 0, < 0$$

or

$$a > 0, = 0, < mc$$

$y + 5 = 0$

... are perpendicular and ...
 (a) If the tangents at P_1 & P_2 are at right angles
 (b) If the chord joining P_1 & P_2 subtends a right angle at the vertex

Intersection of a Line and a parabola:

Let the parabola be $y^2 = 4ax$

and the given line be $y = mx + c$

Eliminating y from (1) and (2), then

$$(mx + c)^2 = 4ax \quad \text{or} \quad m^2x^2 + 2x(mc - a) + c^2 = 0$$

This equation is quadratic in x , gives two real solutions if the discriminant is ≥ 0 .
 parabola in two points may be

$$(3) \quad D > 0, = 0, < 0$$

i.e.

$$4(mc - a)^2 - 4m^2c^2 > 0, = 0, < 0$$

$$4a^2 - 4amc > 0, = 0, < 0$$

$$a > 0, = 0, < mc$$

or
or

... are perpendicular and ...
 (a) If the tangents at P_1 and P_2 are at right angles
 (b) If the chord joining P_1 and P_2 subtends a right angle at the focus

Intersection of a Line and a parabola:

Let the parabola be $y^2 = 4ax$
 and the given line be $y = mx + c$

Eliminating y from (1) and (2), then
 $(mx + c)^2 = 4ax$ or $m^2x^2 + 2x(mc - 2a) + c^2 = 0$

This equation is quadratic in x , gives two real roots if the discriminant is ≥ 0 .
 parabola in two points may be

(3) $>$, $=$, < 0

$4(mc - 2a)^2 - 4m^2c^2 >$, $=$, < 0

$4a^2 - 4amc >$, $=$, < 0

$a >$, $=$, $< mc$

i.e.
 or
 or

A stack of several old, worn books is placed on a light-colored wooden surface. On top of the books sits a dark blue graduation cap with a red tassel. The background is a dark, textured wooden wall. The text 'UiO: DUO vitenarkiv' is overlaid in white on the right side of the image.

UiO: **DUO** vitenarkiv



UiO:DUO vitenarkiv

inspera
assessment







+

inspera
assessment



A stack of several books is shown on the left side of the image, with a dark blue graduation cap resting on top. The cap has a red tassel hanging down. The background is a dark, textured wood, and the foreground is a lighter, smooth wooden surface.

MN: masteroppgaver

høst 19: 100 stk

vår 20: 400 stk

A graduation cap with a red tassel is placed on top of a stack of several books. The books are stacked on a wooden surface, and the background is a dark wood-grain wall. The text "Enklere på sikt" is written in yellow in the upper right quadrant.

Enklere på sikt

A stack of several old, worn books is placed on a light-colored wooden surface. On top of the books sits a dark blue graduation cap with a red tassel. The background is a dark, textured wood panel. The text is overlaid on the right side of the image.

Enklere på sikt

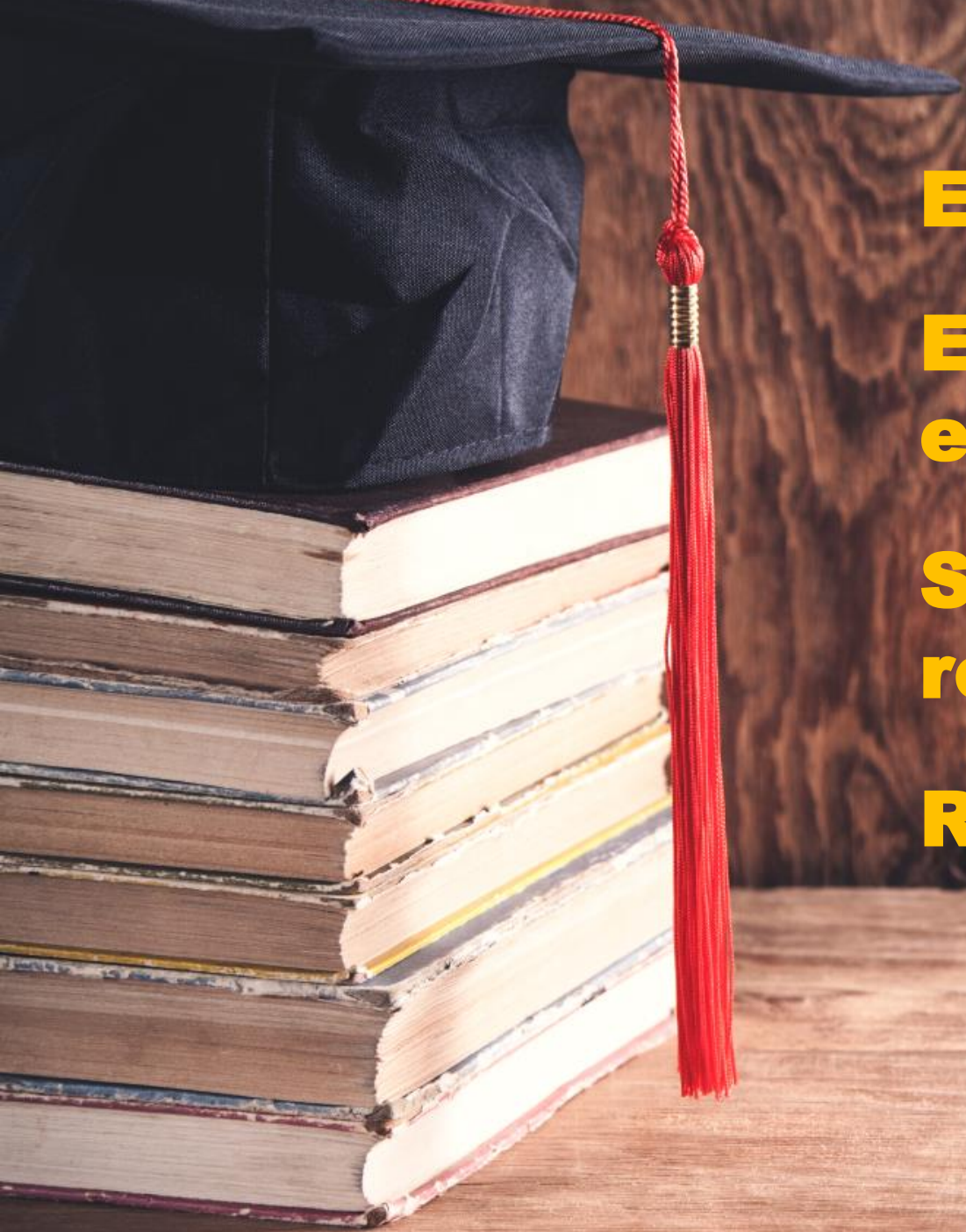
**Eksamener leveres i UiOs
eksamenssystem**



Enklere på sikt

**Eksamener leveres i UiOs
eksamenssystem**

**Samme fremgangsmåte som
resten av UiO/sektoren**



Enklere på sikt

**Eksamener leveres i UiOs
eksamenssystem**

**Samme fremgangsmåte som
resten av UiO/sektoren**

Ryddig/avprivatisering

Intersection of a Line and a parabola:

Let the parabola be $y^2 = 4ax$

and the given line be $y = mx + c$

Eliminating y from (1) and (2), then

$$(mx + c)^2 = 4ax \quad \text{or} \quad m^2x^2 + 2x(mc - 2a) + c^2 = 0$$

This equation is quadratic in x , gives two points may be

$$(3) \quad > , = , < 0$$

i.e.

$$4(mc - 2a)^2 - 4m^2c^2 > , = , < 0$$

$$4a^2 - 4amc > , = , < 0$$

$$a > , = , < mc$$

or
or

ExLibris LEGANTO

Pensum - MAT1100

Legg til emneord

UTKAST ⌚ Oppdatert a month ago 📖 2 referanser i 4 seksjoner 📄 375 Sider 📄 0/2 referanser er under behandling

REDAKER ...

PENSUMLISTER

SAMLING

FINN PENSUMLISTER

RAPPORTER

☰ ↺ 🔍 📄 🔍

SEND PENSUMLISTE NY SEKSJON +

Støttelitteratur (Referanser: 2, Sider: 375) ▾

- 📖 **Skolematematikk : kort og godt** ✓
Hole, Arne, Oslo, Universitetsforl, 2015, Totalt antall sider 200 s.
Legg til tagger på referansen
Blir forberedt Sjekk beholdning
- 📖 **Kalkulus studiebok** ✓
Hole, Arne, 3. utg., Oslo, Universitetsforl, cop. 2016, Totalt antall sider 175 s.
Legg til tagger på referansen
Blir forberedt **Tilgjengelig** hos UiO,Universitetsbiblioteket

$y + 5 = 0$

... are perpendicular and ...

(a) If the tangents at P_1 and P_2 are at right angles
(b) If the chord joining P_1 and P_2 subtends a right angle at the vertex of the parabola.

Let the parabola be $y^2 = 4ax$ and the given line be $y = mx + c$.
Eliminating y from (1) and (2), then

$(mx + c)^2 = 4ax$ or $m^2x^2 + 2x(mc - 2a) + c^2 = 0$

This equation is quadratic in x , gives two real solutions if the discriminant is ≥ 0 .
parabola in two points may be

(3) $> , = , < 0$

i.e. $4(mc - 2a)^2 - 4m^2c^2 > , = , < 0$

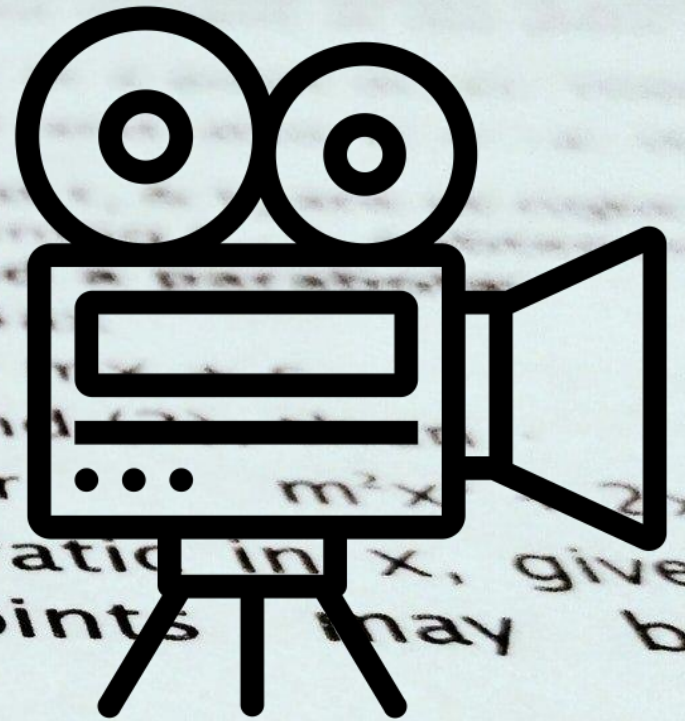
or $4a^2 - 4amc > , = , < 0$

or $a > , = , < mc$



10
emner
pilot

MN | podcast



$y + 5 = 0$

intersection of a Line and a parabola
Let the parabola be $y^2 = 4ax$
and the given line be $y = mx + c$
Eliminating y from (1) and (2) we get
 $(mx + c)^2 = 4ax$

This equation is quadratic in x , gives two points
parabola in two points may be
(3) $>$, $=$, < 0

i.e.
or
or

$$4(mc - 2a)^2 - 4m^2c^2 >, =, < 0$$
$$4a^2 - 4amc >, =, < 0$$
$$a >, =, < mc$$

Intersection of a Line and a parabola:

Let the parabola be $y^2 = 4ax$
 and the given line be $y = mx + c$

Eliminating y from (1) and (2), then

$$(mx + c)^2 = 4ax \quad \text{or} \quad m^2x^2 + 2cx + c^2 - 4ax = 0$$

This equation is quadratic in x , gives two points may be

$$(3) \quad >, =, < 0$$

i.e.

$$4(mc - 2a)^2 - 4m^2c^2 >, =, < 0$$

$$4a^2 - 4amc >, =, < 0$$

$$a >, =, < mc$$

or
 or

piazza

(3) $a > , = , < 0$

$$4(mc - 2a)^2 - 4m^2c^2 > , = , < 0$$

$$4a^2 - 4amc > , = , < 0$$

$$a > , = , < mc$$

piazza

Differ Tablet

$$4(mC - 2a)^2 - 4m^2C^2 > , = , < 0$$

$$4a^2 - 4amC > , = , < 0$$

$$a > , = , < mC$$