

**PENALARAN ADAPTIF SISWA SEKOLAH MENENGAH PERTAMA
PADA MATERI TEOREMA PYTHAGORAS DITINJAU DARI *SELF-
EFFICACY* DAN KEMAMPUAN AWAL MATEMATIS SISWA**

TESIS

Diajukan untuk memenuhi sebagian syarat untuk memperoleh gelar Magister
Pendidikan pada Program Studi Pendidikan Matematika



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**PROGRAM STUDI MAGISTER PENDIDIKAN MATEMATIKA
FAKULTAS PENDIDIKAN MATEMATIKA DAN ILMU PENGETAUAN
ALAM
UNIVERSITAS PENDIDIKAN INDONESIA
2021**

LEMBAR HAK CIPTA

PENALARAN ADAPTIF SISWA SEKOLAH MENENGAH PERTAMA PADA MATERI TEOREMA PYTHAGORAS DITINJAU DARI *SELF- EFFICACY* DAN KEMAMPUAN AWAL MATEMATIS SISWA

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Universitas Pendidikan Indonesia, 2021

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ABSTRAK

Khaluka Ahsana Fitri (2021), Penalaran adaptif siswa Sekolah Menengah Pertama pada materi Teorema Pythagoras ditinjau dari *self-efficacy* dan kemampuan awal matematis siswa

Penelitian ini bertujuan untuk memperoleh gambaran tentang penalaran adaptif siswa kelas VIII Sekolah Menengah Pertama pada materi teorema Pythagoras ditinjau dari *self-efficacy* dan kemampuan awal matematis siswa. Penelitian ini adalah penelitian kualitatif dengan pendekatan *Grounded Theory*. Subjek dalam penelitian ini terdiri dari 15 siswa pada salah satu Sekolah Menengah Pertama di kabupaten Aceh Selatan. Instrumen pendukung dalam penelitian ini terdiri dari tes, pedoman wawancara, dan lembar observasi. Hasil penelitian ini menunjukkan bahwa 1) Siswa dengan *self-efficacy* tinggi cenderung memiliki penalaran adaptif yang baik, sedangkan siswa dengan *self-efficacy* sedang dan rendah memiliki proses penalaran adaptif yang rendah. 2) Siswa dengan kemampuan awal matematis tinggi cenderung memiliki penalaran adaptif yang baik, sedangkan siswa dengan kemampuan awal matematis sedang memiliki proses penalaran adaptif yang rendah. 3) Secara simultan, kelompok siswa dengan *self-efficacy* tinggi dan kemampuan awal matematis tinggi, memiliki penalaran adaptif yang baik, sedangkan siswa dengan *self-efficacy* tinggi dan kemampuan awal matematis sedang, *self-efficacy* sedang dan kemampuan awal matematis tinggi, *self-efficacy* sedang dan kemampuan awal matematis sedang, *self-efficacy* rendah dan kemampuan awal matematis tinggi, dan siswa dengan *self-efficacy* rendah dan kemampuan awal matematis sedang memiliki proses penalaran adaptif rendah.

Kata Kunci: Penalaran adaptif, *self-efficacy*, kemampuan awal matematis.

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ABSTRACT

Khaluka Ahsana Fitri (2021), Junior high school students' adaptive reasoning in Pythagoras theorem subject viewed by student self-efficacy and mathematical prior knowledge.

The purpose of this study is to describe students' adaptive reasoning in solving Pythagoras theorem viewed by self-efficacy and mathematical prior knowledge. This is qualitative reaserch with grounded theory design. There were 15 junior high school students as the subject in this research. The supported instrument in this research were test, interview, and observation. The result of the research shows that 1) Student with high self-efficacy tend to have good adaptive reasoning, meanwhile student with medium and low self-efficacy tend to have low adaptive reasoning. 2). Student with high mathematical prior knowledge tend to have a good adaptive reasoning, meanwhile student with medium mathematical prior knowledge tend to have low adaptive reasoning. 3) Simultantly, student with high self-efficacy and mathematical prior knowledge tend to have good adaptive reasoning, meanwhile student with high self-efficacy and medium mathematical prior knowledge, medium self-efficacy and high mathematical prior knowledge, medium self-efficacy and mathematical prior knowledge, low self-efficacy and high mathematical prior knowledge, low self-efficacy and medium mathematical prior knowledge tend to have low adaptive reasoning.

Keyword: Adaptive reasoning, self-efficacy, mathematical prior knowledge.

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MATEMATIS SISWA**

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